Hydrogeologic Characterization of Acid Mine Drainage (AMD) Along Belt Creek Near Belt, Montana

Report No. 217

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Report No. 217

Jon Reiten, Shawn Reddish & Justin Brown University of Montana – Montana Tech Montana Bureau of Mines and Geology Billings, Montana

2005

A 104B Project initiated 2002

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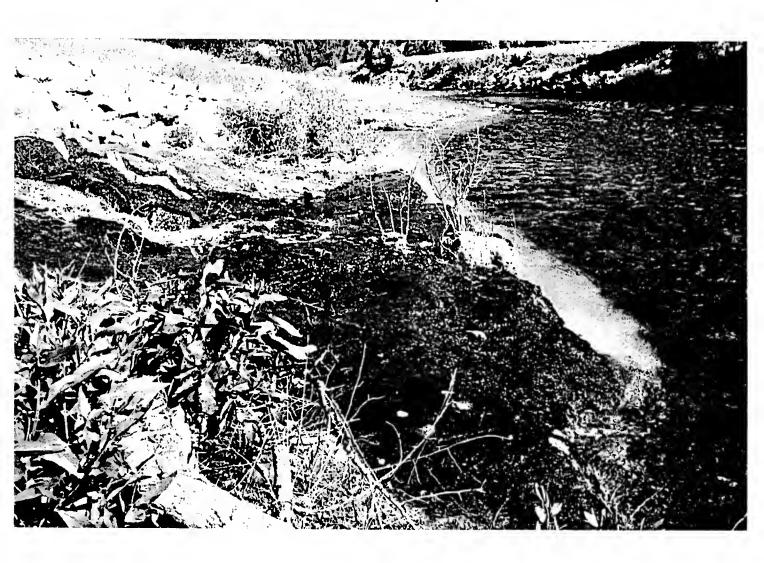
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Hydrogeologic Characterization of Acid Mine Drainage (AMD) along Belt Creek near Belt, MT.

Final Technical Report



by Jon Reiten, Shawn Reddish, and Justin Brown
Montana Bureau of Mines and Geology

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EXECUTIVE SUMMARY

Decades of underground coal mining have resulted in acid mine drainage (AMD) that has contaminated ground-water and surface-water resources in Belt, Montana. The AMD has lowered the pH of Belt Creek and increased trace metals concentrations in the stream. The overall goal of work in the Belt area was to define the hydrogeologic regime in the vicinity of Belt so that recharge to old mine workings, the source of acid mine drainage, could then be delineated with a reasonable level of certainty. This project was funded by the Montana Department of Environmental Quality (MDEQ) 319 Program with supplemental funding from the MDEQ Remediation Division-Abandoned Mine Lands, Montana Water Resource Center, and the Montana Bureau of Mines and Geology (MBMG). Work is continuing under additional task orders through MDEQ Remediation Division-Abandoned Mine Lands.

This project consisted of a phased approach to define and mitigate water quality problems in Belt Creek near the town of Belt, which is 23 miles southeast of Great Falls. Phase 1 is a hydrogeologic investigation to determine contaminant sources and their relative contributions, and to identify and evaluate mitigation measures. Phase 2 will be based on a later proposal to apply specific measures to reduce recharge to the Anaconda Mine and monitor their success.

Shawn Reddish, under the supervision of Jon Reiten, conducted work documenting the hydrogeologic conditions surrounding the abandoned Anaconda Copper Mining Company Mine (Anaconda Mine) near Belt. Specific tasks included inventorying, sampling for water quality and collecting samples for age dating water from wells, springs, adits and seeps. These tasks were conducted to determine if the recharge to the mine workings was local or regional. The inventory process included collecting Geographic Positioning System (GPS) coordinates of pertinent locations, measuring specific conductivity (SC), pH, oxidation-reduction potential (ORP), dissolved oxygen (DO); and determining the geologic source of water in wells, springs, adits and seeps. These field data were then evaluated to screen for the most useful sampling sites; all information was entered into MBMG Ground Water Information Center (GWIC) a database accessible by the public.

Water levels at 28 wells and discharges at 2 springs were monitored. Some of these wells were measured monthly for about 2 years to monitor the fluctuations of local aquifers. Several of these wells and springs have been sampled for tritium, helium-3/tritium and

1

chlorofluorocarbons (CFC) to determine the average residence time of the water. All sampled wells have tritium concentrations greater than background pre-nuclear testing levels. This suggests a modern (post nuclear testing) age for ground water in the alluvial, Kootenai, Morrison, Swift, and Madison aquifers. CFC samples also indicated that all of the recharge is relatively recent. Several samples from the Madison aquifer were supersaturated with CFCs, but the cause of this supersaturation is unknown. The results of helium-3/tritium dating of two water samples also supports the relatively young age of water in aquifers near Belt.

Stream flows at 9 sites were also measured monthly in the study area. Differences in flows between measuring sites were used to evaluate gaining or losing reaches of the Field parameters, including SC, pH, ORP, and DO were measured at each site. streams. The AMD discharge, including flow and field parameters, was monitored at 5 sites on a monthly basis for approximately 2 years. In addition to monthly measurements, an H-flume installed by another project in the area was set up with a pressure transducer to record the AMD discharge from the mine adit. Based on this work and other ongoing MBMG research, the direct loading to Belt Creek from AMD was estimated to be 103,300 pounds of iron per year and 64,986 pounds of aluminum per year. Indirect loading to Belt Creek from other AMD sources moving through alluvial sediments was estimated to be 40,080 pounds of iron per year and 28,327 pounds of aluminum per year. The main source of AMD is the discharge from the Anaconda Mine, which averages about 132 gallons per minute (gpm) or about 213 acre feet per year. The primary purpose of this work has been to identify the source of water recharging the mine workings and recommend possible methods to reduce the recharge which would result in a decrease or possible elimination of AMD loading to Belt Creek.

Several possible sources of recharge were suggested when this project started; others developed as new information became available. Possible sources include: 1) recharge from regional aquifers such as the Madison aquifer, 2) upward seepage from deep aquifers along fault planes, 3) localized recharge from precipitation directly overlying the mines or up-gradient recharge areas, 4) water loss from Box Elder Creek, and 5) focused recharge through shallow depressions overlying the mines. Water-level data from wells completed in the Madison aquifer, below the mine workings and in areas surrounding the mine, indicate the static water-level in the Madison aquifer to be about 400 feet below the mine voids.

Therefore, the Madison aquifer is not hydrologically connected to the workings, nor is it a likely source of recharge to the mines. Other regional aquifers do not appear to be likely sources either, although these have not been completely ruled out. Upward seepage along fault planes does not appear to be a likely source of recharge; based on the downward hydraulic gradients. Box Elder Creek is at a higher elevation than the mine workings and therefore has a potential for losses to the mine. Flow data along Box Elder are currently inconclusive to document stream losses. The most likely source of recharge to the mines is infiltration of precipitation on the land surface overlying the mine workings; including upgradient areas that recharge the localized Kootenai aquifer system.

A significant source of water to the Anaconda Mine (ACM) appears to be from the overlying Kootenai Formation; which is about 260 feet thick in the Belt area. potentiometric-surface map of the Kootenai aquifer was constructed based on well inventory and monitoring measurements. This map was contoured using measurements from 48 wells and springs near the mine. The Kootenai potentiometric-surface map combines head data from aquifers in both the Sunburst and Cutbank Members of the Kootenai Formation. As a result, the map shows only general water-level conditions in the mapped area. Additional wells at critical locations will be needed to accurately depict ground-water flow. Ground water is interpreted to flow from a divide located about 3.5 miles south of the Anaconda Mine. The ground-water divide, south of the mine, appears to be both topographically and structurally controlled. The topographically high area forming the ground-water divide is located just north of a paired, anticline-syncline structure that trends north 45 degrees east. Only precipitation falling north of this divide has the potential to move towards the mine. Once recharge infiltrates vertically to the saturated zone, ground-water flow is generally to the north; perpendicular to the potentiometric contours illustrated in the predominant recharge area to the mine. The upland area between Belt Creek and Box Elder Creek is highly dissected by tributaries of the two streams. These tributaries, plus the main stems of the two streams, are discharge areas for ground water moving out of the Kootenai Formation. The potential recharge area covers about 2,100 acres overlying and up-gradient of the mine. The highly dissected nature of the upland appears to cause much of the precipitation to 1) recharge a shallow ground-water flow system, and 2) cause discharge to the surface-water drainages as seeps and springs in the valley walls. Several of the springs coincide with the

contact of the Sunburst Sandstone Member (aquifer) and the underlying unnamed finegrained unit (aquitard).

Based on the data collected, it appears that recharge to the Anaconda Mine is locally derived. The recharge appears to be relatively constant; as recorded in the discharges from the mine. Fluctuations in precipitation cause significant changes in discharge from the overlying Sunburst aquifer springs. However, the mine discharges remain stable. Apparently the head increase, caused by precipitation-derived recharge, is rapidly dissipated through leakage at contact springs. As a result of this localized flow system, the volume of AMD discharging from the mine could be reduced or possibly eliminated by changing land- use in the recharge area. Other possible remediation options would be diverting flow from overlying aquifers to prevent filling the mine voids or flooding the mine voids to reduce pyrite oxidation. Growing alfalfa or other water consumptive crops would have the potential to significantly reduce infiltration and possibly decrease the AMD discharges.

INTRODUCTION

In the vicinity of Belt, the water quality of Belt Creek is currently degraded by Acid Mine Drainage (AMD) from the abandoned Anaconda Mine, as well as, smaller acidic discharges from other abandoned coal mines along Belt Creek. The overall goal of all AMD work in the Belt area is to restore the water quality of Belt Creek by reducing or eliminating all sources of AMD pollution. This will improve stream habitat, restore native fish populations and improve ground-water quality of the alluvial aquifer. This project was designed to define hydrogeologic conditions in the vicinity of Belt so that recharge to old mine workings, the primary source of AMD, could be delineated with a reasonable level of certainty. Several possible sources of recharge were suggested when this project started and others developed as new information became available. The possible sources include: 1) recharge from regional aquifers such as the Madison aquifer, 2) upward seepage from deep aquifers along fault planes, 3) localized recharge from precipitation directly overlying the mines, or up-gradient recharge areas, 4) water loss from Box Elder Creek, and 5) focused recharge through shallow depressions overlying the mines. Hydrogeologic data and waterquality information were used to document the source of recharge and to estimate potential changes in recharge rates, ground-water flow rates, and acid mine drainage discharges under

various scenarios including combinations of cropping, dewatering or other techniques that might have been found to be appropriate. Water samples from a variety of sources potentially associated with AMD was age-dated by testing for tritium, helium3/tritium and chlorofluorocarbons. With this combined hydrogeologic knowledge, best-management practices can be developed to reduce future generation of acidic discharges into Belt Creek.

Background

The town of Belt is located on the north flank of the Little Belt Mountains in central Montana (Figure 1). Decades of underground coal mining have resulted in acid mine drainage (AMD) that has contaminated ground-water and surface-water resources in Belt, Montana. The Anaconda Mine is the largest mine in the area and was developed in 1895 (Fischer, 1907). Coal was extracted from a 6-foot thick seam located in a stratigraphic position near the top of the Morrison Formation (Fischer, 1909). Although mining ended about 80 years ago, water with a pH of 2.94 is still flowing out of abandoned mine workings adjacent to, and near, the town of Belt. Acid mine drainage continues to add metals and lower the pH of Belt Creek. Belt Creek discharges acidic, metal-laden, water into the Missouri River. Belt Creek also can not support fish below the town of Belt. Previous mitigation efforts involved a development of a series of wetlands to remediate the AMD. These wetlands, however, were unsuccessful in reducing acidic discharges. Acid water recharging the alluvial aquifer along Belt Creek has rendered that aquifer unusable in some areas (Koerth, oral communication, 2002).

In 1978, the city of Belt drilled 2 public water wells. These wells were drilled through the alluvium aquifer and completed in the Madison Formation. The town of Belt is concerned that acid ground water, in the shallow alluvium along Belt Creek, might corrode the casings of the town's water wells. If corrosion to the city's well casings were to occur (including the direct damage to the city's infrastructure,) metal-laden, acidic water from the alluvium aquifer could drain down to the Madison Formation and consequently degrade that watersource.

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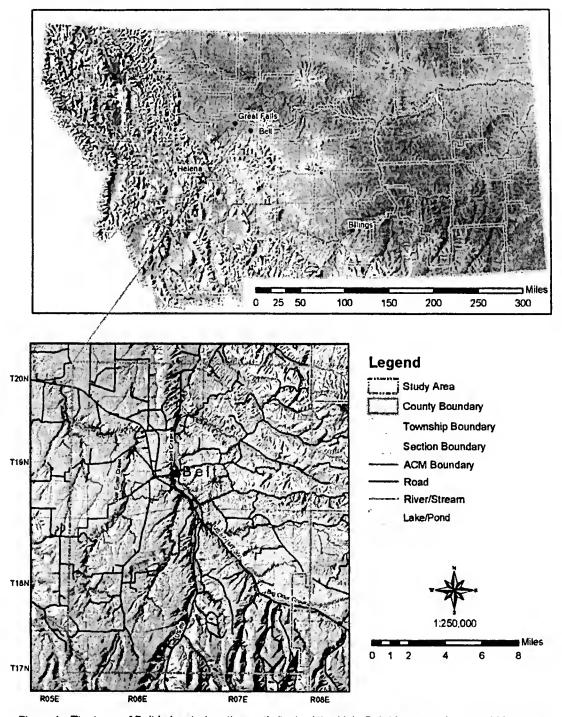


Figure 1. The town of Belt is located on the north flank of the Little Belt Mountains in central Montana.

Belt's #2 well (GWIC ID 2315) is located near Belt Creek on "Coke Oven Flats", where coal waste was stored during mining operations. This public well is located adjacent to reclaimed mine spoils and is only about 140 feet south east from monitor well #1(MW1-GWIC ID 214917). A water quality sample extracted from this monitor well indicated very corrosive water containing high concentrations of trace metals.

In the late 1980's, the MDEQ began the reclamation of a large burning pile of coal waste located on "Coke Oven Flats" and closed several open mine portals. In 1994, the water main between the pump house and water tanks corroded and leaked. These leaks were caused by reactions of acidic ground-water and acidic soils with the metal pipe (Figure 2). The leaks were repaired when the metal water mains were replaced with plastic PVC pipe (DEQ, 2000).

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	72	



Figure 2. Corroded municipal water line from the town of Belt.

Water-quality problems at Belt are caused by geochemical processes enhanced by the method of mine abandonment. Oxygen-rich meteoric waters recharging the ground-water system overlying the coal mines eventually infiltrates into mine workings that contain pyrite-rich waste coal and are often overlain by pyrite-rich sandstone immediately above the coal, thereby producing acid mine drainage (Wheaton and Brown, 1999). These acidic discharges flow into Belt Creek at an average rate of 132 gpm. These inflows, in addition to data for stream flow at Belt Creek, were collected as part of this project to help identify loading to Belt Creek. The AMD problem is continuous. Other studies show a direct relationship of AMD production with precipitation and infiltration (Wheaton and Brown, 1999; Osborne and others, 1987). Of particular concern is the increase in ground-water recharge brought about by the crop/fallow cropping system that overlies much of the recharge area to the mine.

Previous Investigations

In the 1980's, as part of a larger project covering the entire Great Falls coal field, the Montana Department of State Lands (currently MDEQ Remediation Division-Abandoned Mine Lands) identified a number of environmental problems associated with the historic coal mines and their ancillary facilities in the Belt area. As part of MDEQ's activities, the mine adit for the No.2 Anaconda Mine was closed. A pipe was installed to carry the acidic water, discharging from the mine, downhill where it combined with acidic water from another discharge. This combined AMD water forms a channel that flows adjacent to reclaimed mine spoils before discharging into Belt Creek.

MDEQ, along with the U.S. Bureau of Mines (USBM), installed a series of wetlands for passive treatment of acid-mine water originating from the French Coulee Mine, located in the next coulee south of the Anaconda Mine. This water is also very acidic. However, the flow is considerably less than that from the Anaconda Mine. A portion of this water was diverted into the wetlands for treatment and then discharged to Belt Creek. However, due to the high iron concentrations and harsh winter weather in the area, the wetlands were not able to achieve an acceptable level of treatment and were abandoned. Water from this location flows under the existing railroad beds, down a steep hill, and then discharges into the same channel that receives the Anaconda Mine drain water.

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The United States Geologic Survey (Karper, 1998) conducted an intensive water-quality study of a number of sites in the Belt area as part of a study of acid mine drainage problems in the Stockett-Sand Coulee and Belt areas. They installed a flume and stilling well for continuous monitoring of the discharge from the Anaconda Mine and collected periodic water quality samples from various sites.

When the coal-waste area below the Anaconda Mine (and adjacent to the channel receiving acid mine water discharge) was reclaimed, a series of six, shallow, monitoring wells were installed by the MDEQ for ground-water monitoring (Tetra Tech, 1995). These wells were installed for monitoring of a proposed grouting project aimed at mitigating the discharge of contaminated ground-water into Belt Creek. However, this project was postponed and no additional data was collected from these wells.

One project (Osbourne and others, 1987) characterized hydrogeologic conditions at several abandoned mines in a similar geologic setting in the Stockett-Sand Coulee area and possible recommendations for cleanup at these sites were developed. One of the approaches discussed was to change current land uses in the recharge areas of the mines from a cropfallow system to a more water consumptive cropping pattern. Another study done by Wheaton and Brown (1999) evaluated the hydrogeology and geochemistry of the Cottonwood Mine near Stockett-Sand Coulee. Local precipitation recharges the Cottonwood Mine workings. A previous land-use change from crop fallow to the Conservation Reserve Program (CRP) appears to have significantly reduced the recharge volume and, consequently, acidic discharges from the mine were also lowered.

A concurrent project, supervised by Ted Duaime of the MBMG and funded by the MDEQ, is focusing on the hydrogeology in the area immediately surrounding the Anaconda Mine. Work has included detailed geologic mapping, remote sensing mapping, AMD sampling, stream sampling, and surface flow monitoring of streams and other discharges. The construction of nested monitoring wells in significant aquifers in the Anaconda Mine area is nearly finished. Preliminary findings of this DEQ sponsored work has been published as a MBMG open file report (Duaime and others, 2004). This open file report also contains an excellent summary of the coal mining history in the Belt area.

Project Sponsor and Funding Sources

The city of Belt was the project sponsor. Funding sources came from MDEQ section 319 grant along with funds from the Montana Water Center, Task Orders through the MDEQ Remediation Division-Abandoned Mine Lands, and the Montana Bureau of Mines and Geology.

Methods

Data collected for this project include an inventory of ground-water and surface-water conditions, water-quality samples, stable-isotope samples, tritium samples and chlorofluorocarbon samples. All data are available on the Environmental Protection Agency (EPA) Storet data base. Ground-water, surface-water, and water-quality data are available on the Montana Bureau of Mines and the Geology Ground-Water Information Center (GWIC) at (www.mbmggwic.mtech.edu). GWIC ID numbers are attached to all wells used in this report.

During this project, 72 existing water wells, 6 AMD sites, 6 monitor wells, 2 ponds, 9 stream sites and 17 springs were inventoried in the vicinity of Belt (Figures 3 and 4). The locations of the inventory sites were determined using GPS, and surface elevations were estimated from 1:24,000 topographic maps or Digital Elevation Models (DEMs). As part of the well inventory, static-water level, pumping-water level, and well depth were measured when possible and water use was identified. At surface-water sites, stream flow and spring discharge were monitored as part of the inventory. Field water-quality parameters (pH, SC, Temperature, DO, Redox) were tested at all sites that water samples could be collected. All the inventory data are summarized in Appendix A.

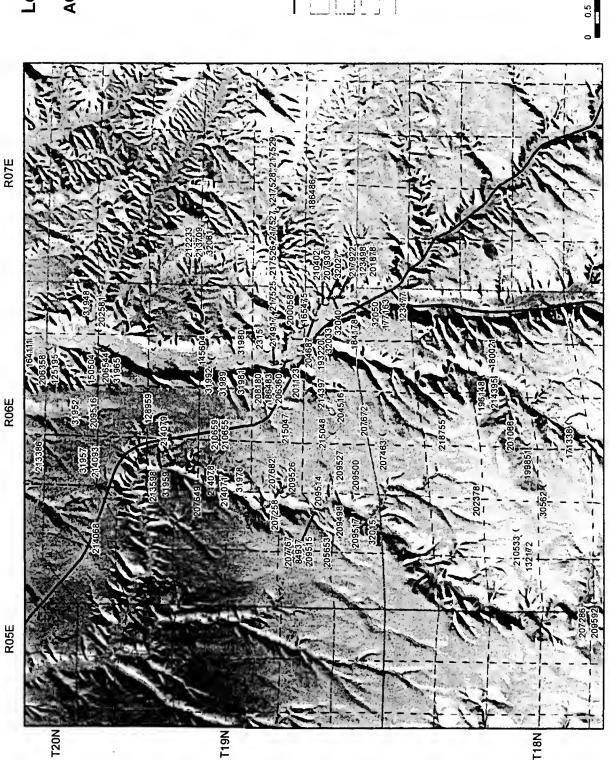


Figure 3. Map showing locations of wells and springs inventoried in the Belt area.

Legend

AQUIFER

- Mine Tailings
- Alluvium
- Kootenai Formation Undivided Sunburst Member Cutbank Member
- Morrison Formation
- Madison Formation Swift Formation
 - Highway
 - ACM Boundary
- Township Boundary
 - Section Boundary
- River/Stream

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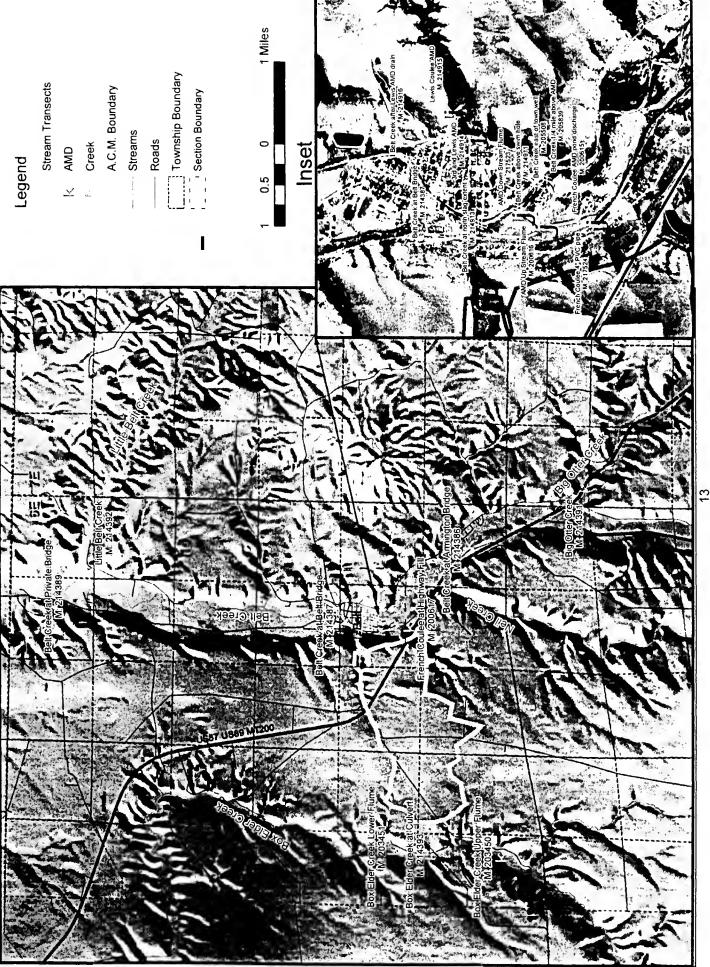


Figure 4. Map showing surface-water and AMD inventory and monitoring sites.

Between September, 2002 and October, 2004, ground-water and surface-water measurements were collected to document water-level fluctuations and changes in field water-quality parameters. Water-levels were measured monthly at 31 of the inventoried wells. Six wells, originally installed in 1995 by the Abandoned Mine Reclamation Bureau to monitor AMD, were included in the monitoring network. Two wells (GWIC ID #'s 2315 and 31992) were also measured quarterly by the MBMG ground-water characterization program. Ground-water level hydrographs were plotted with daily precipitation or stream flow and are compiled in Appendix B. Selected hydrographs are also shown in several figures within this report.

Stream flow, spring water flow rates and field water-quality parameters (pH, SC, Temperature, DO, Redox) were monitored monthly from 9 surface-water sites in the study area. During low-flow conditions, stream flow was calculated by measuring stream velocities while wading the creek at specific transect locations. During high-flow conditions, a bridge crane and weighted "fish" were used for transects when conditions were too dangerous to wade. Parshall flumes were used to measure flow in Box Elder Creek and at several AMD discharges. At some locations, flows were calibrated by gauge height or volumetric measurements (bucket and stop watch). Refer to Appendix C for field chemistry, flow measurement method, and flow rate chart data.

Acid mine drainage flow rates and field-water quality parameters were also measured monthly at five sites. Flow rates were obtained by either H-flume gauge height or volumetric measurements (bucket and stop watch). Refer to Appendix D for field chemistry, flow measurement method, and flow rate chart data.

Several ground-water samples were collected for tritium, stable isotopes, helium-3/tritium and Chlorofluorocarbons. These ground-water samples were collected after purging three casing volumes from the well (or until field water-quality parameters stabilized). Surface-water samples were collected directly from the stream or discharge. Samples were not preserved and were shipped to the appropriate laboratory for analyses as soon as possible.

The stable-isotopes of oxygen were analyzed on 15 samples to better delineate the source(s) of ground-water recharge. The samples were analyzed by the University of Waterloo in Ontario, Canada. Isotope contents are expressed in terms of the difference

between the measured ratio of isotopes (i.e., sampled $^{18}O/^{16}O$) to a standard reference ratio of the isotopes (i.e. reference $^{18}O/^{16}O$) and are expressed in a delta notation (δ) in parts per thousand (permill). The formula for this expression (using ^{18}O as an example) is as follows:

$$\delta^{18}$$
O sample = $\frac{^{18}O/^{16}O \text{ sample} - ^{18}O/^{16}O \text{ VSMOW}}{^{18}O/^{16}O \text{ VSMOW}}$

The standard reference ratios (Coplen and kendall, 2000) for the isotopes used in this investigation are as follows:

Hydrogen ($\delta^2 H$): VSMOW (Vienna Standard Mean Ocean Water)

Oxygen (δ^{18} O): VSMOW

Tritium samples were collected to determine the age of ground-water, surface-water, and AMD-water in the study area. The tritium samples were collected from ground-water wells by purging wells and filling unpreserved bottles. Surface and AMD water were collected at the source. These tritium analyses were performed by The University of Waterloo in Ontario, Canada.

Chlorofluorocarbon (CFC) samples were also collected as another estimate of the average age of ground water. Samples were collected by attaching one end of low-permeability rubber viton tubing to an outside faucet, while placing the other end inside a small glass jar. The jars were then purged with water to avoid any atmospheric contamination. The samples were collected in bottles and sealed with tape and sent to the University of Miami for analysis.

Water samples were collected from 21 wells, 14 surface-water sites, and 4 AMD sites for common-ion and trace constituent analyses. Ground-water samples were collected after purging the well approximately three casing volumes. Stream-water samples were collected at individual flow measurement sites along stream transects and combined into a composite sample. Field parameters of pH, SC, ⁰C, DO, and ORP were also recorded at time of sample collection. The samples were collected in accordance with standard field and laboratory protocols. The analyses for the water-quality samples were conducted by the MBMG analytical laboratory in Butte, Montana. Refer to Appendix E for lab analyses.

PROJECT SETTING

Climate, Physiography and Land Use

Belt has a semiarid climate with warm summers, cold winters and moderate amounts of precipitation. Because of the location near the boundary between the Great Plains and the Rocky Mountains, the climate is influenced by characteristics of both regions. This climate summary is based on records from the closest long-term climatic station about 25 miles northwest of Belt at the Great Falls Airport (http://www.wrcc.dri.edu). The average annual precipitation for the period of record (July, 1948-December, 2004) is 14.77 inches. The average snowfall is 60.6 inches. Much of the precipitation falls during the growing season. The average monthly maximum temperature is 56.4 degrees F. and the average monthly minimum is 33.2 degrees F. Winter is cold, but temperatures are often moderated by extended periods of mild temperatures brought on by strong, southwesterly, Chinook winds. Spring is usually cloudy and cool with frequent episodes of rain or snow. Summer characteristically has warm days and cool nights with frequent afternoon and evening thunderstorms. Fall months cycle between cool, moist and warm, dry conditions.

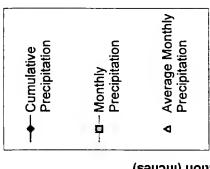
Climatic conditions during the study period (2002-2004) were drier than normal (Figure 5). A local climate station was established in April, 2003, located approximately three miles southwest of Belt at the Reddish Ranch (T 18N R 6E NW1/4 Section 14). Data from this site, and the long-term monthly averages at the Great Falls Airport, are compared in Figure 6. During the 21 month period from April, 2003 through December, 2004, precipitation at Belt was 6 inches less than the average at the Great Falls Airport. Much of the deficit in precipitation was during the typically wet growing season months; especially in 2003.

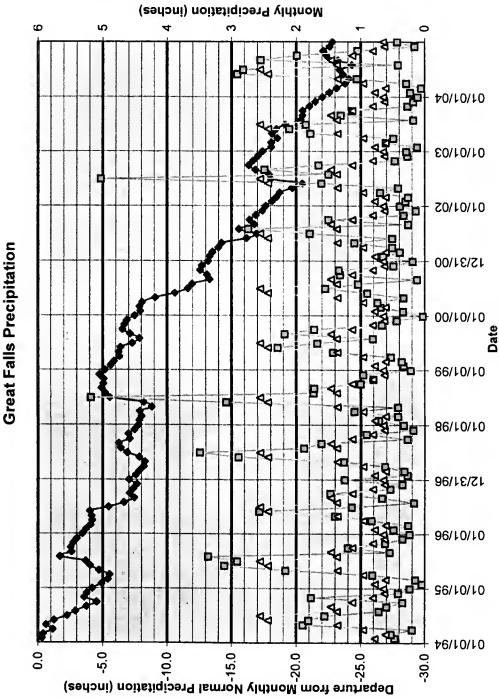
The reclaimed main access to the Anaconda Mine is located within the city limits of Belt with the main haulage opening on the west side of the Belt Creek valley. The Anaconda Mine underlies the drainage divide between the Belt Creek watershed and the Box Elder Creek watershed (part of the Upper Missouri-Dearborn River watershed). The land surface rises to the southwest from an elevation at Belt, about 3,500 feet above sea level, towards the Little Belt Mountains. The highest elevation in the study area is about 5,000 feet. Many

springs exist in the area; especially in the Box Elder Creek drainage. These springs flow year round with pronounced seasonal fluctuations.

Several of the main streams in the area, including Belt Creek and Box Elder Creek, are intermittent. Most of the flow in Belt Creek is from snowmelt in the Little Belt Mountains. Stream flow in Belt Creek typically peaks in the late spring.

Farming and ranching are the main land uses in the Belt area (Figure 7). Small grain crops and hay meadows account for about 30,564 acres. Rangeland accounts for about 46,197 acres. Urban and commercial development account for about 303 acres. Other land uses make up the remaining 62 acres. Coal mining was historically important, but hasn't been a significant part of the economy for over 80 years. Recently, Belt has become a bedroom community for Great Falls and it appears associated housing development is likely to increase.





Comparison of Great Falls precipitation as cumulative departure from monthly normal to recorded monthly precipitation and average long-term monthly precipitation. Figure 5.

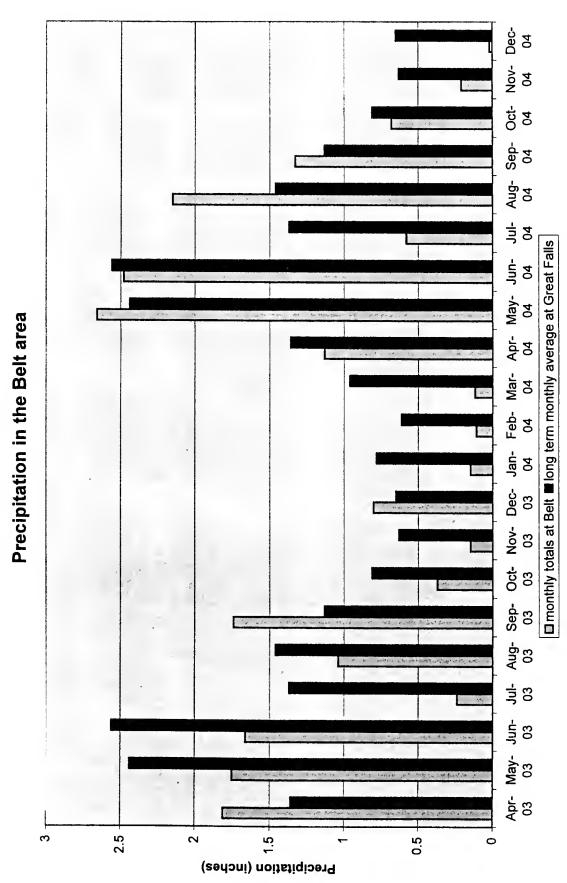


Figure 6. Companson of precipitation from the Reddish Weather Station near Belt to long-term average precipitation at Great Falls.



Land Use	Acres	%
Other	61.60	0.07%
Urban	302.94	0.36%
Forest	6021.35	7.24%
Range/Pasture	46197.24	55.56%
Cropland	30564.46	36.76%
Total	83147.59	100.00%

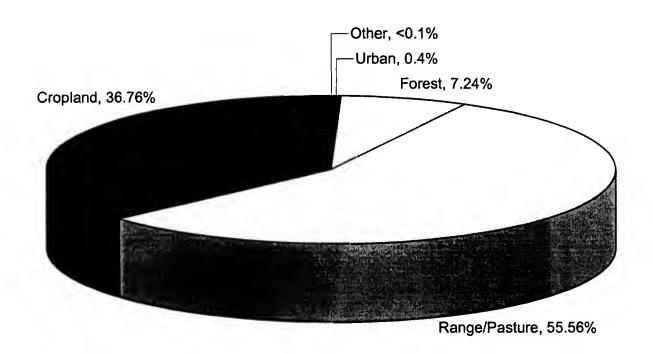


Figure 7. Land use in the Belt area (USGS, 2000).

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Geology

A geologic map of the Belt area (Vuke and others, 2002) showing the extent of surficial geologic units is illustrated in Figure 8. The topographic divide overlying the Anaconda Mine consists of weathered mudstone and sandstone of the Kootenai Formation. Thin soils are developed on the fractured sandstone beds. These soils contain abundant cobble and boulder-sized tabular slabs of weathered sandstone. The flood plain and alluvial deposits underlying the Belt Creek valley are up to 40 feet thick. The alluvium is composed of yellowish-brown to gray gravel, sand, silt, and clay. Coal was mined from the upper part of the Morrison Formation which is overlain by the lower Kootenai Formation. A few miles north of Belt, the upper Kootenai and overlying Blackleaf Formation are also exposed and are overlain by glacial and Tertiary terrace gravels. In the mine area, the Morrison Formation is underlain by the Swift Formation and the Madison Group. However, within a few miles south of Belt; other units of the Big Snowy Group appear between the Swift Formation and the Madison Group: the Sawtooth Formation, Otter Formation, and Kibbey Formation. Age, lithology, thickness, and depositional environments of these stratigraphic units are summarized in Table 1.

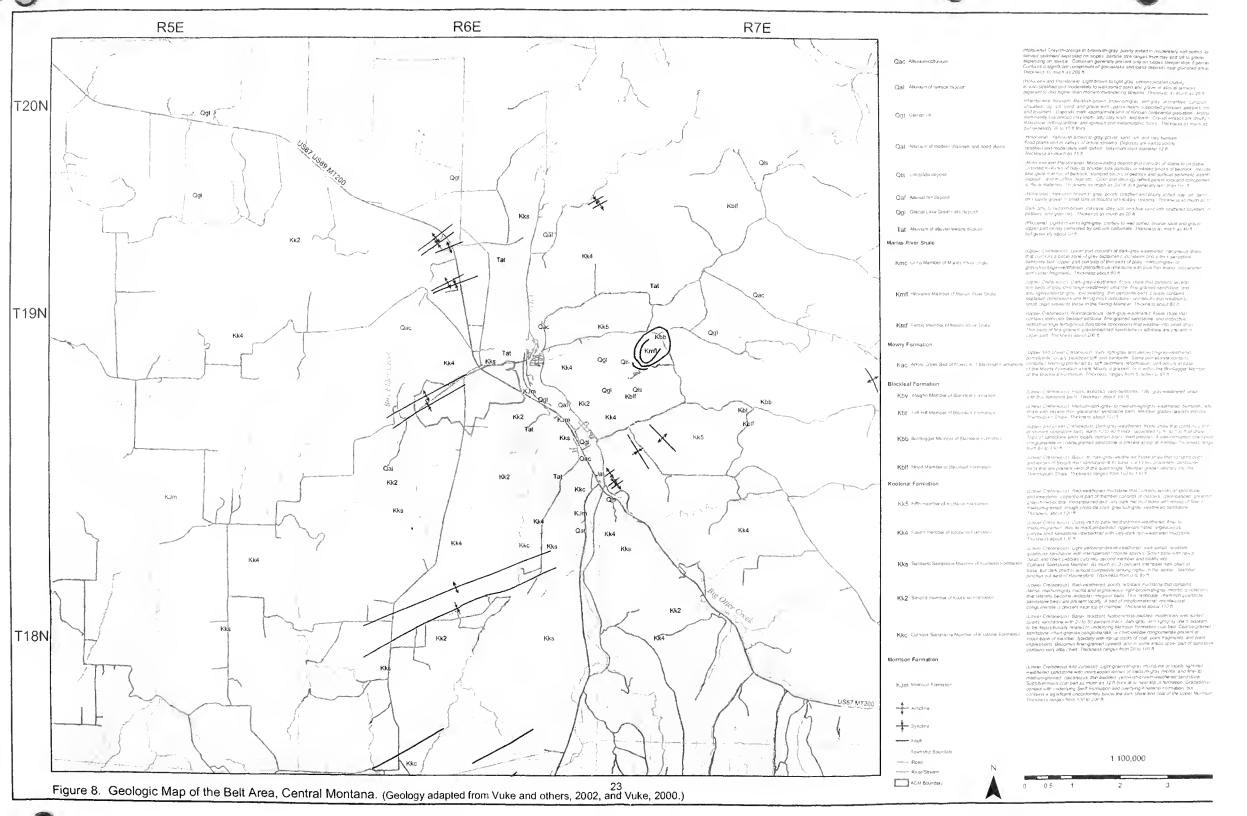
Several wells were constructed in and around the Anaconda Mine as part of an ongoing DEQ funded project. Based on lithologic logs of wells drilled in fall 2004, an average of about 256 feet of the Kootenai Formation overlies the Anaconda Mine (Duaime and others, 2004). The Kootenai Formation is comprised of five distinct members composed of interlayered beds of siltstone, mudstone, and sandstone; two of which are relatively clean and thick sandstone water-bearing units. The uppermost unit (Kk5) is predominantly red mudstone and sandstone, but is not present overlying the mine. The Fourth member (Kk4) is predominantly thin-bedded layers of sandstone at the land surface overlying the mine and averages about 80 feet thick. The Third member (Kk3) is the uppermost sandstone unit and is also referred to as the Sunburst Sandstone Member. This unit is about 45 feet thick at the mine and is composed of light-yellowish-brown, well sorted, resistant, quartzose sandstone. The Second member (Kk2) is about 115 feet thick at the mine and is predominantly red mudstone with limestone lenses. The basal unit is the Cutbank Sandstone Member (JKk1). The Cutbank Sandstone is resistant, well sorted, quartz sandstone up to 100 ft thick in some

locations (Vuke and others, 2002). The Cutbank Sandstone immediately overlies the Morrison coal bed above the old mine workings.

Table 1. Stratigraphic units in the mine area (Duaime and others, 2004)

Stratigraphic Unit	Period	Lithology	Thickness	Depositional Environment
Quaternary Alluvium	Quaternary	Interbedded clay, silt, sand, and gravel	Up to 40 feet thick in the Belt Creek valley	Stream channel and floodplain
Blackleaf Formation	Cretaceous	Black shale and sandstone beds	Not present at mine; 600' thick to north	Mostly marine
Kootenai Formation	Cretaceous			
Fifth member		Red mudstone and sandstone	Not present at mine; 120' thick to north	Alluvial plain
Fourth member		Fine-grained, thin-bedded red or brown sandstone	45' thick at mine	Deltaic and fluvial
Sunburst Sandstone		Clean, porous quartz sandstone	45' thick at mine	Marginal marine
Second member		Red mudstone with limestone lenses	115' thick at mine	Alluvial plain
Cutbank Sandstone		"Salt and pepper" sandstone, may be conglomeratic	20' thick at mine	Fluvial
Morrison Formation	Cretaceous and Jurassic	- congression	_	Alluvial plain
ELLIS GROUP	Jurassic			Marine
Swift Formation		Orange-brown sandstone, conglomeratic, fossiliferous	50' thick at mine	
Sawtooth (Piper) Formation		Oolitic limestone, shale and siltstone	Not present at mine; 30' thick to south	
BIG SNOWY GROUP	Mississippian			Marine
Otter Formation		Green shale, limestone and gypsum	Not present at mine; 300' thick to south	
Kibbey Formation		Red mudstone, siltstone and fine-grained sandstone	Not present at mine; 100' thick to south of mine	
MADISON GROUP	Mississippian			Marine
Mission Canyon Formation		Gray, thick- bedded limestone	800' thick to south of mine	
Lodgepole Formation		Gray, thin- bedded limestone and shale	700' thick to south of mine	

R₅E [Holocene) Grayish-crange to brown sti-gray, poorly sorted to moderately wall sorted to denied sediment deposited on slopes, particle size ranges from day and silt to gravel depending on source. Colluming perselling present only on slope sitelege than 8 percentarins a significant component of glacial-lake and loess deposits near glaciated ame-Thickness as much as 200 ft (Holocene and Pferstocee). Light brown to light gray, unconsolidated crudely to well-stabilied and moderately to well-sorted sand and gravel in alliurial terrisces objected to and higher than modern meandering streams. Thickness as much as 29 ft. (Pleistocene, lilhoran). Readish-brown, brownish-gray, and gray unstratified compact unscribed day sit, sand, and graysh with sparse mains supported granulus, pabbles, on and bioiders. Deposits mark approximate limit of lithouan continental glacution. Matrix dominantly calceratures clay form, sity clay from a deem. Claudal arrates are chally individual control and gray of the proposition of grays and relative price cocks. Thickness are much as but generally 30 to 15 ft thick. **F20N** . Qgl (Holocena) Yellowish-brown to gray gravel sand, sift and clay beneath flood plans and in selleys of active strowns. Deposits are well to poorly stratified and moderately wall sorted. Maximus clast allometer 12 ft. Thickness as much as 15 ft. Channels and flood plains (Holocene and Pielslocene). Mass-wosting deposit that consists of stable to unstable, unsorted mixtures of day- to boulder-size particles or rather blocks of bedrock include blocylate masses of bedrock stumped blocks of bedrock and sufficial sedment, earthful deposits, and mulfiller deposits. Color and lithology reflect parent rock and frinsported sufficial materials. Thickness as much as 200 ft, but generally less than 100 ft. (Mokkene) Yallowsh-brown to gray, poorly stratified and poorly sorted day sitt sand and sandy gravet in small lans at mouths of tribitary streams. Thickness as much as 15 Qgt Dark-gray to redeish-brown, massive, day, silt and fine sand valli scattered boulders, α pubbles, and granules. Thickenss as much as 20 ft alls deposit (Finceine) Light-brown to light-gray, crudely to well sorted coarse sand and gracel. Upper part locelly cemented by celicium carbonate. Thickness as much as 40 ft. but generally about 20 ft. rrace deposit Kk2 (Upper Cretaceous). Lower part consists of dark-gray-weathered, caccreous shele that contains a beset zone of gray septerian concretions and a thick persistent bentonte bed. Upper part consists of thin beds of play metium-gray- or graysh-orange-weathered petroliferous limestone with blue fish scales, inco-eraind, and cysfer fragments. Thickness about 60 ft. (Upper Crutocoous) Dark-gray-wealthered, fissile shale that contains several thin beds of grayish-orange-wealthered shiftcore, fine-grained sandstone, and also lightlyellowish-gray, kneswelling, thin bentonte bads Locally contains septaran conceitons and ferroginous diotstone concentions that wealther to small chips similar to those in the Ferdig Member. Thickness about 60 it (Upper Cretareous) Noncelcorsous, dark-gray-weathered, fissile shale that contains leafficular-bedded satistone, fine-grained sandstone, and distinctive reddish-grange femilyinous diciostone concretions that weather into small chips. This beds of the-grained, planet-bedded sandstone or sitistone are present in upper part. Truckness about 200 ft. T19N Kk4 (Upper and Lower Crataceous). Very light-grey and yellowish-grey-weathered poncetainte, locally zeoletzed tuff, and bentonte. Some poncetante contains contained bodding produced by saft-sediment deformation. Unit occurs at load of the Mowry. Formation where Mowry is present, or as within the Boddagger Member of the Blackleaf Formation, Thickness ranges from 5 inches to 65 ft. Mowry and Blackleaf Formations (Lower Cretaceous). Poorly exposed, very bentontic, sdty, gray-weathered shale with thin bentonite beds. Thickness about 100 ft. (Lower Crefaceous) Medium-dark-gray- to medium-lightgray-weethered, bentonric sity shake with several thin, glauconiuc sandstone berts. Member grades laterally into the Thermopollis Shale. Thickness about 120 ft. ckleaf Formation (Upper and Lower Criticeous). Derh-gray-weathered, fissile shale that contains 2 to 6 prominent sendstone beds, each 10 to 40 ft.fick, separated by 50 to 100 ft of shale 10ps of candistone beds to cally contain black chart pebbles. A well-cemented chart-pebble, conjugarante or coarsegratined sandstone is present at top of member 1 hickness range. of Blackleaf Formation (Lower Crefaceous). Black- to dark-gray-weathered fissile shale that contains po-and lenses of brokutheled sandstone of its base. Lacks two prominent sandstone beds that are present west of the epadrangle. Member grades laterally into the Thermopolis Shale. Thickness ranges from 100 to 130 ft. (Lower Cre(aceous): Red-weathered mudstone that contains lenses of sandstone and limestone. Uppermost part of member consists of mossive color-bended, greenish-grayeh-rad-purple, moderale-red and very dark red mudstone with lenses of line- to medium-general, trough-cross-bedded, greenish-gray-weathered sandstone. Thickness about 120 ft. (Lower Cintoceous) Dusky-red to pale-reddishbrown-weathered, fine- to medium-perined, thin- to medium-bedded, ripple-laminated, engillaceous, playbedded sandstone interbedded with very-dark-red-weathered mudstone Truckness about 100 ft ootenal Formation (Lower Chalaceaus). Light-yellowish-browniveathered well-sorted, resistant quarticus sandstone with interspersed limonae specks. Scour bess with rip-up clasts and chen pebbles cuts into second member and locally into Cutbank Sandstone Member. As much as 20 percent Interstitied dark ched at base but dark chert to almost compiletely lacking higher in the section. Member piniches out east of Raynestord. Thickness from 0 to 80 ft. Kk4 (Lower Crafaceous) Red-weathered, poorty resistant mudistone that contains dense, madrum-gray microte and argitilaceous, light-trownsh-gray microte concretions that laterally become inabucular, irregular backs, Timi, lenicular, chert-nch quartizos sandstone beds are present locally. A bad of intraformational, inceffe-citad configurations to present local to por directions. Thickness about 110 ft. (Lower Cratacaous) Basat, resistant, festionicross-badded, moderable) viell softed quart; sandstone with 20 to 50 percant black, dark-gray, and lightgray chert, appears to be depositionelly related to underlying Monisor Formation cost bed Coars-grained sandstone, chart-graintie conglomeratie, or deri-pebble conglomeratie pre-sent at soour base of member, typically with rip-up clasts of coat, plant frepriments, and plant impressions. Becomes fine-grained upward; and in some erras upper part of sandstonic contains very little chert. Thickness ranges from 20 to 100 ft. Κĸ T18N (Lower Crafeceous and Juressic). Light-greenish-gray mudstone or locally light-red weathered-sandstone with interbedded lenses of medium-gray mente, and fine- to medium-grayined, calcereous, the bedded, yellowish-brown-weathered sandstone Subblaminous coal bed as much as 12 ft thick at or near top of formation. Gradational context with underlying Swift Formation and overlying Kootenal Formation, but contains a significant unconformity below the dark shale and coal of the upper Momson Thickness ranges from 100 to 200 ft. 1:100,000 Figure 8. Geologic Map of the Belt Area, Cent



The Jurassic Morrison Formation is about 100 feet to 300 feet thick in this area. The Morrison Formation is light-greenish- grey mudstone with lenses of yellowish-brown-weathering sandstone. A subituminous coal bed as thick as 12 feet is located at or near the top of the Morrison Formation (Vuke and others, 2002). The recent DEQ drilling project encountered voids where the coal had been mined out in this interval at several locations (Duaime, oral communications, 2004).

The Ellis Group contains the Swift Formation and is predominantly sandstone that ranges from 50-120 feet thick in the area. The Swift weathers grayish-orange and is composed of fine- to coarse-grained sandstone (Vuke and others, 2002).

Rocks of the Big Snowy Group do not appear to underlie the Anaconda Mine. These units thicken rapidly towards the Little Belt Mountains and make a significant difference in estimating depths to the Madison aquifer in the area south of Belt.

Limestone of the Mission Canyon Formation, which is up to 800 feet thick in the area, forms the upper unit of the Madison Group. The Madison Group is light-grey to dark-grey weathering, resistant, massive limestone (Vuke and others, 2002). Drill holes into the Mission Canyon Formation frequently encounter solution cavities. Sinkholes, caves, and other karst features are common in the Mission Canyon Formation.

Structure

The overall dip of surficial sedimentary rocks near the Anaconda Mine is about 4 degrees to the northeast (Vuke and others, 2002). The overall structural grain is shown by the strike of several small faults and folds (mapped in Figure 8) and trends northeast in the Belt area. The geologic structure controls deposition, erosion and exposure of geologic units in the Belt area. Tectonic forces that form faults, folds and other structures typically control development of secondary porosity such as cleat in coal beds and fractures in other rocks. This secondary porosity typically forms hydraulic connections between pore spaces and voids in the rocks to form aquifers. Several episodes of structural movement and deformation are summarized in the study done by Duaime and others (2004). Pre-Jurrassic uplift tilted the sedimentary units to the south that were subsequently eroded. Recurrent movement has been documented along the Great Falls Tectonic Zone; a northeast trending basement suture that may be responsible for much of the fracturing and folding in the Belt

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area (O'Neill and Lopez, 1985). The Anaconda Mine is located on the southeast flank of the Sweetgrass Arch; another recurrent basement structure that appears to have influenced the distribution of the Sunburst Sandstone and also the development of fractures and folds. Faults and folds appear to coincide with hydrologic features such as ground-water divides and may control saturated versus dry regions in the abandoned mine workings.

Underground mining commonly causes collapse of the overlying roof rocks which can project to the surface. No obvious signs of roof collapse have been observed overlying the ACM mine near Belt. However, there is also a strong potential for fractures to develop over the mine workings. These fractures could provide conduits for infiltration of recharge through the overlying sediments. This has not been verified at Belt but may potentially enhance the development of AMD in the mine workings.

HYDROGEOLOGY

Aquifers/Aquitards

Several of the geologic units in the Belt area form aquifers of either regional or local extent. The Mission Canyon Formation of the Madison Group is probably the most prolific regional aquifer in the Belt area and is commonly referred to as the Madison aquifer. This aquifer supplies discharges of about 300 cubic feet per second (cfs) at Giant Springs in Great Falls (Patton, oral communications, 2004). The town of Belt has two production wells completed in the Madison aquifer. During the recent drought, many farmers and ranchers in the Belt area have either deepened their shallow wells or directly targeted the Madison aquifer. The Swift Formation of the Ellis Group forms an important local aquifer along many reaches of Belt Creek. Sandstone beds in the Morrison Formation (the coal bed located at the top of the Morrison) and the Cutbank Sandstone of the Kootenai Formation combine to form an important aquifer system of both local and regional extent in central Montana. The Sunburst Member of the Kootenai Formation is another significant aquifer and appears to be the source of numerous springs along Belt Creek and Box Elder Creek. Quaternary sand and gravel deposits along Belt Creek and Box Elder Creek are also important local aquifers. They are typically directly connected to the streams and therefore sensitive to surface flows.

Ground-Water Flow

Ground water moves through the primary porosity of sand, gravel and sandstone, secondary fractures in the sandstone, cleat in the coal, secondary fractures and solution cavities in limestone. Regional ground-water flow is both down-dip and down-slope to the north. Locally, the ground-water flow appears to be directed towards Belt Creek.

Ground-water flow in the Belt area can be characterized by individual aquifers. The primary question regarding ground-water flow for this project is: What primary source of water enters the Anaconda Mine and forms the acidic discharges? Significant differences in flow conditions are dependant on the depth and continuity of geologic units making up the aquifers. The deepest and most laterally continuous aquifer in the area is the Madison aquifer. Recharge to this aquifer is from snowmelt in the Little Belt Mountains, where the Mission Canyon Formation is at the land surface, and from infiltration of precipitation through overlying deposits down-slope from the outcrop area. The Madison aquifer receives recharge from overlying units until somewhere between Belt and the Missouri River. The potentiometric surface of the Madison aquifer ranges from 3,275 feet (above mean sea level) where it underlies the Anaconda Mine to 3,290 feet (above mean sea level) underlying the town of Belt. The potentiometric surface underlying the Anaconda Mine ranges from about 344 feet to 412 feet below the mined out coal horizon.

The Swift aquifer is typically only developed in stream valleys in the Belt area. Not enough data points are available to construct a ground-water flow map of this aquifer; but the potentiometric surface appears to be controlled by stream stage.

The well inventory and monitoring focused on identifying aquifers up-slope from and overlying the Anaconda Mine in areas that would potentially recharge the mines. The Kootenai aquifer system is the predominant water-bearing unit underlying this recharge area. Several layers of fine-grained mudstones, siltstones and clay beds form aquitards generally restricting the vertical flow of infiltrating recharge water and forming confining beds both above and underlying many of the aquifers in the Belt area. The vertical flow is restricted enough in places to allow perched aquifers to form and contact springs to flow at the lower contact of this aquifer. The Sunburst aquifer is perched on the Second member (Kk2) of the Kootenai Formation overlying the Anaconda Mine. Several springs issue from the base of the Sunburst aquifer along Box Elder Creek and Belt Creek. Other springs in the Belt area

appear to issue from the Cutbank sandstone which underlies the Second Member of the Kootenai Formation (Kk2). Although vertical flow is restricted, some water infiltrates through the aquitards recharging underlying aquifers and the mine workings. Much of this infiltration is through fractures in the sedimentary rocks. Unfortunately, only a few wells are located in this area making it difficult to verify our hydrogeologic interpretations. Supplemental drilling by the MDEQ has greatly enhanced our understanding of the hydrogeology directly overlying the Anaconda Mine. The hydrogeology is currently being interpreted through another MBMG project.

A potentiometric-surface map of the Kootenai aquifer was constructed based on well inventory and monitoring measurements. This map was contoured using measurements from 48 wells and springs near the mine (Figure 9). The Kootenai potentiometric surface map combines head data, collected in July, 2004, from aquifers in both the Sunburst and Cutbank Members of the Kootenai Formation. As a result, this map shows only general water-level conditions in the mapped area. Additional wells at critical locations will be needed to accurately depict ground-water flow. Ground water is interpreted to flow from a divide located about 3.5 miles south of the Anaconda Mine. The ground-water divide south of the mine appears to be both topographically and structurally controlled. The topographically high area forming the ground-water divide is located just north of a paired, anticline-syncline, structure that trends north 45 degrees east. Only precipitation falling north of this divide has the potential to move towards the mine. Once recharge infiltrates vertically to the saturated zone, ground-water flow is generally to the north, perpendicular to the potentiometric contours depicted in Figure 9. The upland area between Belt Creek and Box Elder Creek is highly dissected by tributaries of the two streams. These tributaries, plus the main stems of the two streams, are discharge areas for ground water moving out of the Kootenai Formation. The potential recharge area covers about 2,100 acres overlying and upgradient of the mine. The highly dissected nature of the upland appears to 1) cause much of the precipitation falling on the upland to recharge a shallow ground-water flow system, and 2) cause discharge to the surface-water drainages as seeps and springs in the valley walls. Several of the springs coincide with the contact of the Sunburst Sandstone Member aquifer and the underlying unnamed fine-grained unit (aquitard). North of the Anaconda Mine, the flow gradient in the Kootenai aquifer decreases. This may be in response to drainage into the

mine voids through secondary fractures. A more detailed well network could potentially indicate the southern ground-water flow in areas just north of the mine.

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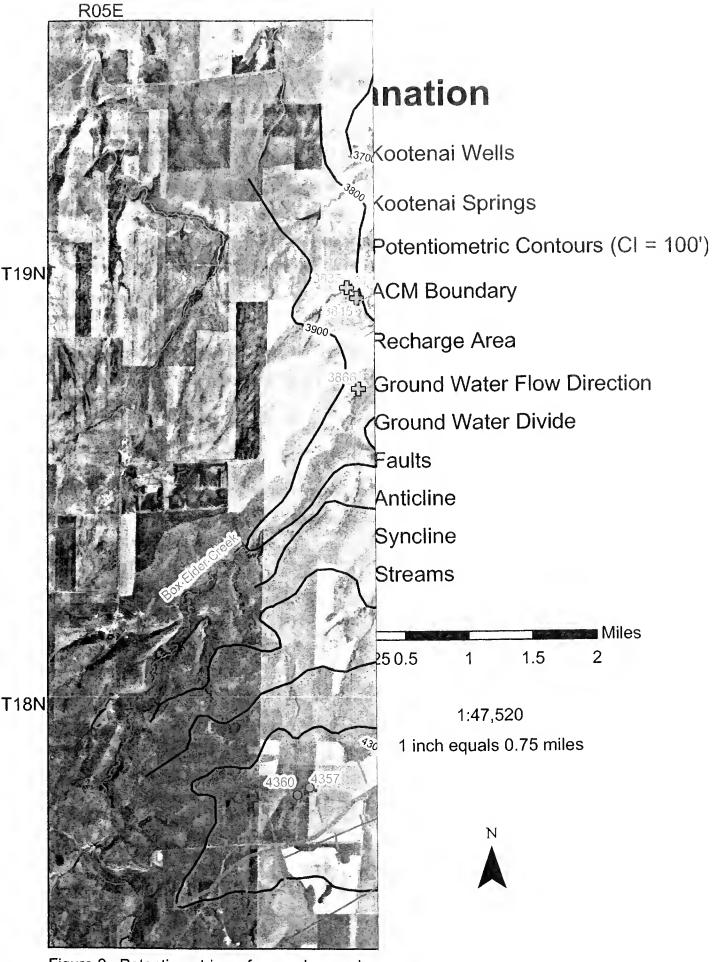


Figure 9. Potentiometric surface and ground wi inventoried springs, ground-water elevations me

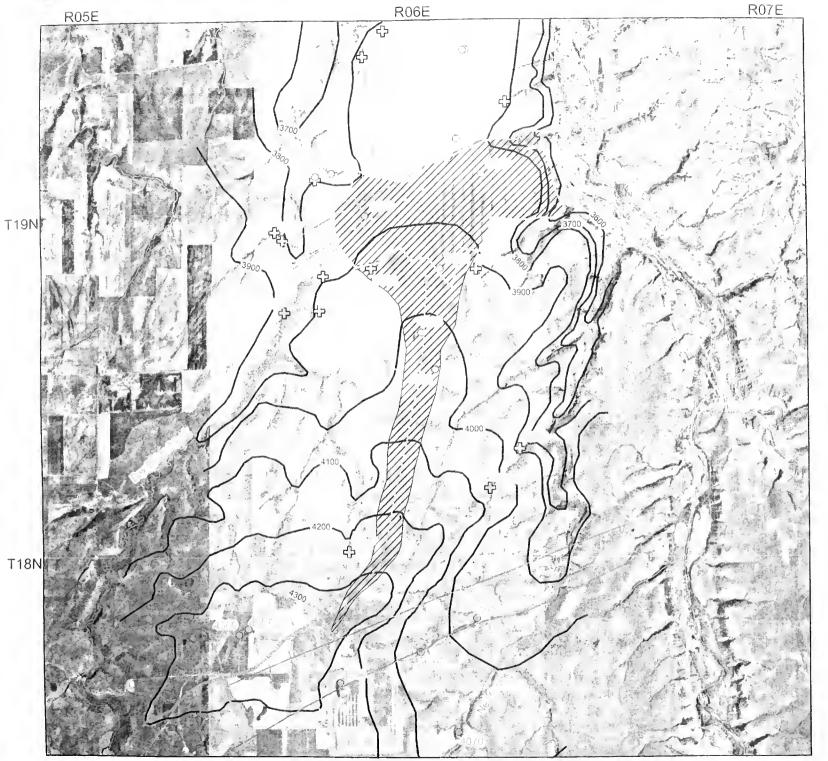


Figure 9. Potentiometric surface and ground water divide of the Kootenai aquifer system near the ACM mine based on elevations of inventoried springs, ground-water elevations measured in July 2004, and water levels from wells drilled.

Explanation

Kootenai Wells

⊕ Kootenai Springs

Potentiometric Contours (CI = 100')

ACM Boundary

Recharge Area

Ground Water Flow Direction

Ground Water Divide

Faults

Anticline

Syncline

Streams



1:47,520 1 inch equals 0.75 miles



Based on these interpretations, a significant source of water to the Anaconda Mine appears to be from the overlying Kootenai Formation. The Kootenai Formation is about 260 feet thick in the Belt area. The lower sandstone unit (Cutbank Sandstone Member) forms an aquifer directly overlying the targeted coal bed. The Cutbank Sandstone Member is overlain by an unnamed fine-grained unit that forms an aquitard. The Sunburst Sandstone Member forms another aquifer overlying this aquitard. The upper unit of the Kootenai Formation is another unnamed fine-grained aquitard. The Kootenai Formation is highly fractured causing some degree of vertical hydraulic connection from the surface down to the underlying coal bed and mine voids.

Water in the alluvial aquifer adjacent to and underlying the Belt Creek valley is hydraulically connected to the stream channel. Flow is towards the stream during low stages, while flood waters reverse the ground-water flow and recharge the aquifers during high stages.

Water-Level Fluctuations

The observed water-level fluctuations in monitoring wells responded to several variables. These include the geologic source of each well, the precipitation, and the position of each well in the landscape. Hydrographs of all wells measured are shown in Appendix B. Hydrographs of selected wells that are good examples of documenting responses to specific hydrologic events are shown in Figures 10-12.

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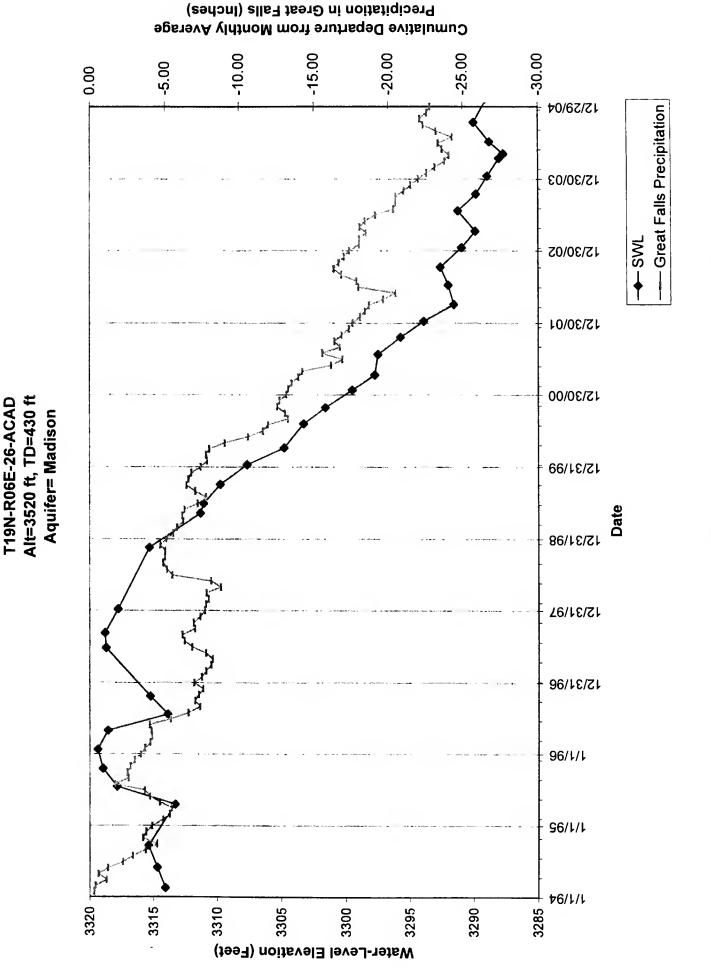
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M: 2315 Belt City Well

Figure 10. Hydrograph of water-level fluctuations in the Madison aquifer at Belt compared to Great Falls precipitation.

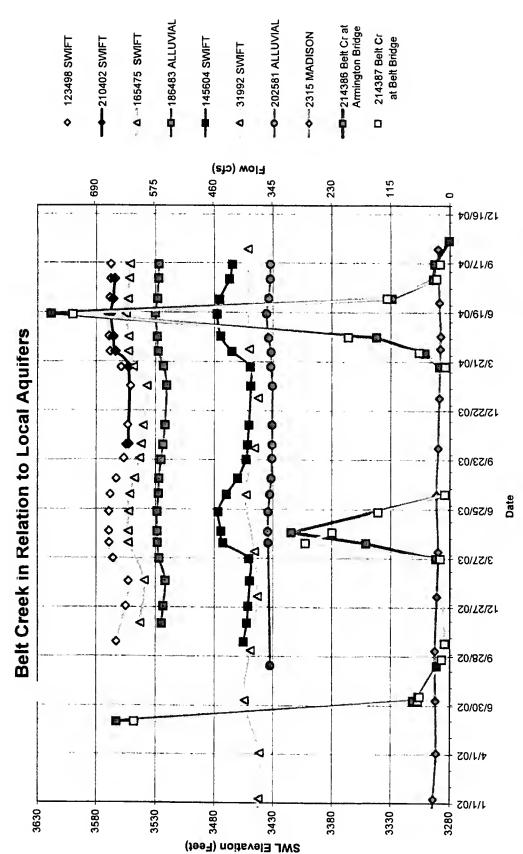
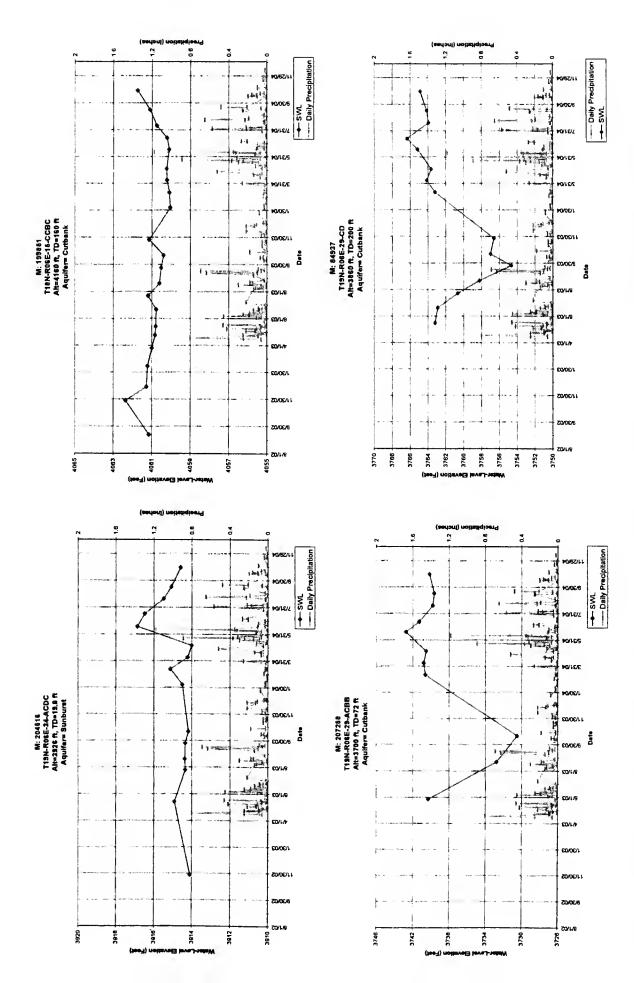


Figure 11. Hydrographs comparing water-level fluctuations in the Swift, alluvial, and Madison aquifers with Belt Creek stream flow.



The upper two charts are from wells in uplands, up-gradient of the mine and depict low magnitude annual responses (2-3 feet). The lower two charts Figure 12. Hydrographs showing magnitude and pattern of water-level fluctuations in the Kootenai aquifer system close to the Anaconda Mine. are from wells near slope breaks along tributaries and depict higher magnitude annual responses (11 - 13 feet).

Hydrographs from wells completed in the Madison aquifers show the response of the extended drought in the Belt area. Figure 10 is a relatively long-term hydrograph for one of the Belt city wells (GWIC ID 2315). Water levels in deeper wells completed in the Madison aquifer rise slightly in early spring, but the overall trends are declining water levels. Water levels have steadily declined since about 1998. This closely corresponds to the extended drought in this area.

Hydrographs from wells completed in the Swift aquifer show annual responses to stream stage along Belt Creek (Figure 11). Most of these wells are located very close to Belt Creek. Water levels in these wells appear to rise during periods of high stream flow and fall as snow-melt derived runoff declines.

Kootenai aquifer wells completed in the uplands, up-gradient of the mine, demonstrated minor water-level fluctuations trending flat to a slight decline responding to the recent drought (Figure 12). However water levels in the Kootenai aquifer wells completed near the break-in slope, towards small tributaries, showed a greater magnitude of water-level fluctuations in response to the recent drought. Most upland Kootenai wells have a rapid water level increase after large precipitation events. Water-level responses in the Kootenai appear to be more dependent on the geographic setting than the specific aquifer; as can be observed in the two upper hydrographs in Figure 12. Both wells are located in an upland setting, but at different depths. The shallow well (GWIC ID 204516) is completed in the Sunburst aquifer at a depth of about 20 feet. In contrast, the deeper well (GWIC ID 199851) is completed in the Cutbank aquifer at a depth of about 160 feet.

Water levels in wells completed in the alluvial aquifer near Belt Creek tend to rise and decline with Belt Creek's seasonal variation; similar to the Swift water levels (Figure 11).

Aquifer Properties

Specific Capacity Evaluation

By accessing well drill logs in the study area, specific capacity (gpm/ft) values were calculated to estimate the aquifer properties (Table 2).

		Tab	is 2. Aqu	ifer pro	perty a	nalys	es by specif	c capa	ity						
Q	New Insuran	Location 1783	***	C Me confined a	Meri Planes	Para Budium	Performance in British and a (19)	Target Branch (FE	Paring and the design	Diametrum Pto	Pri duration		Transmittentify (1)	The state of the s	7
32040	Sieve Assets	Townsett 2 Sulfi	Alluvum	U	4	30	0 (open hele)	12	32	20	•	1.5	69	•	l
31946	Harry Nisbel	GEE	Allunium	U	8	20	O topen hales	24	36	12	2	2.5	539		ĺ
32015	Jim Lerson ranch	1 1946 HT 15 1222	Allowom	U	,	40	0 (open hole)	14	30	16	,	23	119		ı
32027	Bob Pumperion	11994 (SE 3)- 4303	Altunum	u	6	60	D (open hole)	21	40	19	1	12	154		ı
186483	Leray Spiller	THE ASSELS DOOR	Altunum	υ	Б	1.57	5	18.60	17	0.37		49	271	54.2	ı
132172	Keaster \ Neison	THINGIE 19 CACA	Komena	С	4	16	20	23	160	137	2	01	11	9.6	
106486	Dawson Ranch	Pala Pala	Kestena	c	4	24.5	20	63	117	\$2	,	04	41	21	
31957	Nathan Hond	1000 E ME 64 (1000 E	Kostena	С	6	12	40	95 13	119.7	24.57	1	0.0	47	1.2	
212233	Larry Murphy	TUNNSに担任 でもか	Keelena	С	4.5	13	30	253 65	273 3	21.45	1	0.4	62	2.1	
164171	Keiln Høyer	(3.74年(60d)) (200.4	Kootena	С	4	60	20	1	70	69	1	9.9	96	40	l
32061	Albert Caleratrik	11777771L 1 2330	Koolena	c	4	12	3	120	132	32	,	,	125	41.7	
30562	G Jennson	PARK T	Kestena	c	6	20	15	20	35	15	1	1.3	346	9.7	1
171338	Mire Fellows	TENS PERE	Koelena	ç	6	20	10	9	24	15	1	1.3	180	15	
125195	Emilio Garza	Ages	Koeleng	С	6	30	77	6.9	60	11		2.7	295	38	
207296	Roger Nelson	HAIRE U	Kontene	С	5	15	30	21	24.2	3.2	2	47	568	18.9	
32050	E4 Spragg	TONKALD	Short	Ç		12		27_	45	22_	1	0.5	60	7,5	
165475	Waltace Mcmarrigle	Ttyra-yelve gare	Shift	c	_ 6_	20	11	5	35	30	,	0.7	73	6.6	1
32033	Charles Falter	SCAL.	Swill	c		40	9	6	40	34	1	1.2	132	14.7	
31960	Caral Stevenson	UNIVE 11 KNOWE 31	PMR	_c	6	36	26	5.2	70	1.0	1	1.7	178	6.9]
145604	Linda Axsels	e. Ja-Ryet Abou	Built	С	6	28	10	46	61	11	0.5	25	286	20.6	
150504	Grenda Denks	TIPARINE 11	Madison	с	5	12	37	178	218	40	1	0.3	27	0.6	
123477	Mertin Winder	THEN ROSE DE VIDET	Medison	С	4	18	•0	310	350	40	36	0.5	41	9.6	
31989	Gary Filginger	THE ROLL SE	Medison	c	6	8,67	151	56.85	67.45	8.6	1	00	69	0.5	
120969	Sweeney Runch	Trenebie in Cort	Madison	С	5	25	460	493	520	21	2	0.9	84	0.2	

Using the median specific capacity, the transmissivity (ft²d) and hydraulic conductivity (ft/d) were also estimated for each aquifer and are shown in Table 3 (Lohman, 1979).

Table 3. Aquifer properties estimated from median specific capacity values for each aquifer.

Aquifer property analyses by specific capacity							
Aquifer	Specific capacity (gpm/ft)	Transmissivity (ft²/d)	Hydraulic conductivity (ft/d)				
Alluvium	2.5	139	-				
Kootenai	0.95	110.5	4.3				
Swift	1.2	132	7.5				
Madison	0.65	58	0.55				

Slug Tests

Slug tests were performed in the fall of 2004 on 5 of the 6 monitoring wells (MW) located on the reclaimed slag area on Coke Oven Flats. MW-3 (GWIC ID 217526) and MW-4 (GWIC ID 217527) had sufficient casing volume for the slug test to work properly. Slugtest data from these two wells were evaluated using the Hvorslev method (Hvorslev, 1951). The results of these analyses indicated the ground-water hydraulic conductivity ranged from about 0.6 to 32.5 feet per day. MW-4 represents an alluvial well with the hydraulic conductivity between 20 and 32 feet per day. Most wells were completed at a depth where hard, cemented gravel was encountered that could not be penetrated by the auger. Unlike the other five wells drilled in this area, MW-5 (GWIC ID 217528) was different because cemented gravel was not encountered during drilling. MW-2 (GWIC ID 217525) penetrated about 15 feet of reclaimed slag consisting of a mixture of scoria and river gravel. Based on the Hvorslev model, the hydraulic conductivity of the reclaimed waste site ranged from 0.6 to 3 feet per day.

Surface Water

Surface-water monitoring locations are shown in Figure 4. AMD discharges were monitored at 5 locations. Stream flows were periodically monitored at 3 tributaries to Belt Creek, 3 locations along Belt Creek, and 3 locations on Box Elder Creek. Flow data is summarized in Appendix C.

Acid Mine Discharges

AMD were identified at 5 sites in the Belt Creek Valley (figure 4). All sites were monitored and sampled for water-quality at least once for this project. Later, several flumes were added to collect more accurate flow measurements (Duaime and others, 2004).

In 1986, the Anaconda Mine's main entrance was sealed and the AMD was piped beneath the county road and Burlington Northern Sante Fe Railroad (BNSF RR) tracks to a ditch which drained into a local swimming hole at Belt Creek (Figure 13). On the east side of the railroad tracks, the area known as "Coke Oven Flats", 27 acres of waste was reclaimed in 1987. After decades of smoldering, the coal waste was extinguished and removed or buried on site (DEQ, 2000). The USGS flume recorded an average flow rate of 99 gpm

from July 1994 through July 1996 (Karper, 1998). The MBMG recorded flow readings from the same flume (GWIC ID 200616) from May, 2002 to December, 2004 with an average flow rate of 132 gpm.

The French Coulee Mine Drain (GWIC ID 200615) originates from several reclaimed mines buried on the north and south side of French Coulee adjacent to the US 87 highway fill (DEQ, 2000). AMD is collected and piped under the county road to a drainage ditch (Figure 14) that was designed to mix with the Anaconda Mine discharges flowing into Belt Creek (DEQ, 2000). The AMD from the French Coulee Mine, however, seeps into the ground and does not make it directly to Belt Creek. An average flow rate of 9 gpm was measured on the east side of the railroad tracks. Flows could not be compared from USGS data due to different flow collection points.

The Lewis Coulee Mine area was reclaimed in 1985 (DEQ, 2000). The two mine openings were plugged and spoil piles were graded. A large storm drain was also constructed to carry the Lewis Coulee water and AMD (GWIC ID 214915) directly to Belt Creek (Figure 15). The average flow rate of the Lewis Coulee AMD, recorded by the MBMG during 2002-2004, was 3 gpm. Following a large precipitation event in June, the runoff flow increased to 30 gpm. Stream-flow monitoring, done by the USGS in 1994 through 1996, revealed similar flow conditions of an average flow rate of 3 gpm (Karper, 1998). The USGS data also showed large precipitation events causing peak flows over 100 gpm.

Brodie, Meisted and Millard Mines were reclaimed on the east side of Belt Creek in 1986 (DEQ, 2000). The AMD discharging from these mines (GWIC ID 214914) has been referred to as "Lewis Coulee above Castner Park" in previous reports and is continued in this report (Figure 16). This AMD does not typically discharge directly into Belt Creek, but is discharged to an unlined drainage ditch where it seeps into the alluvial aquifer before entering Belt Creek (Figure 17). The MBMG estimated average flow rates to be about 2 gpm. Flow monitoring from the USGS in 1994 through 1996 averaged 5 gpm (Karper, 1998). A list of AMD sites including flow rate and field parameters are listed in Appendix D.

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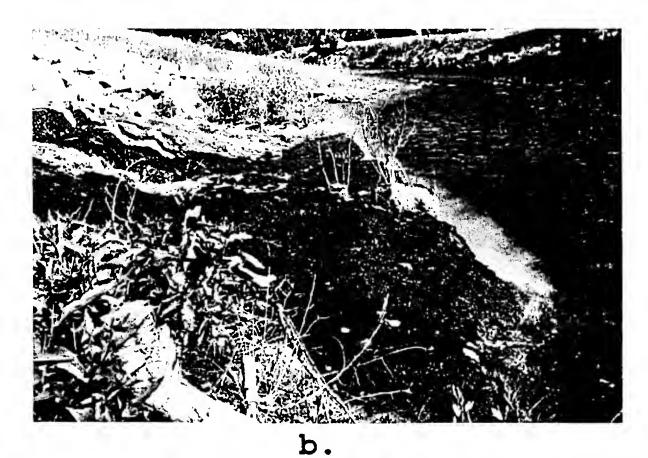


Figure 13. Anaconda Mine AMD discharges into Belt Creek at the local "swimming hole".

a. View to the south. b. View to the north.

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Figure 14. The French Coulee Mine Drain collects AMD from several reclaimed mines.

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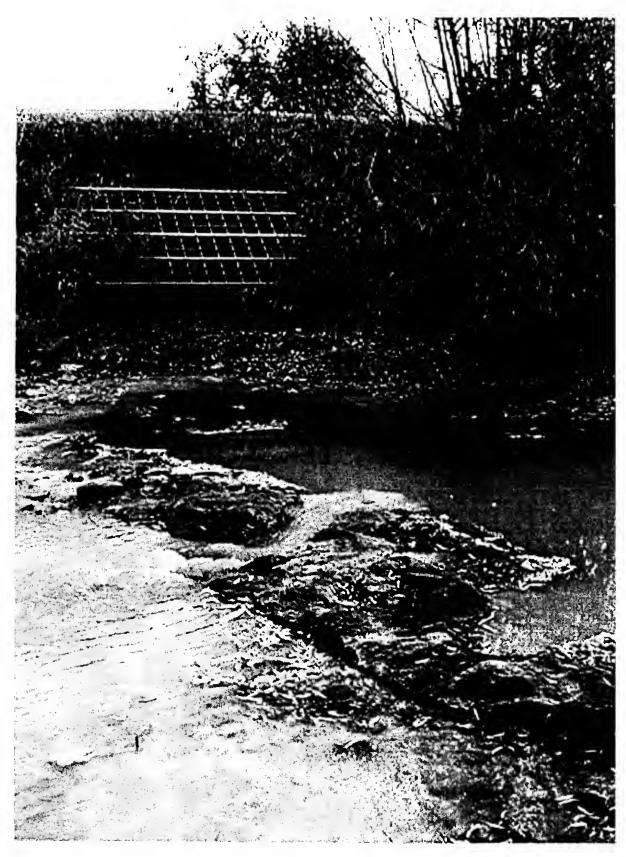
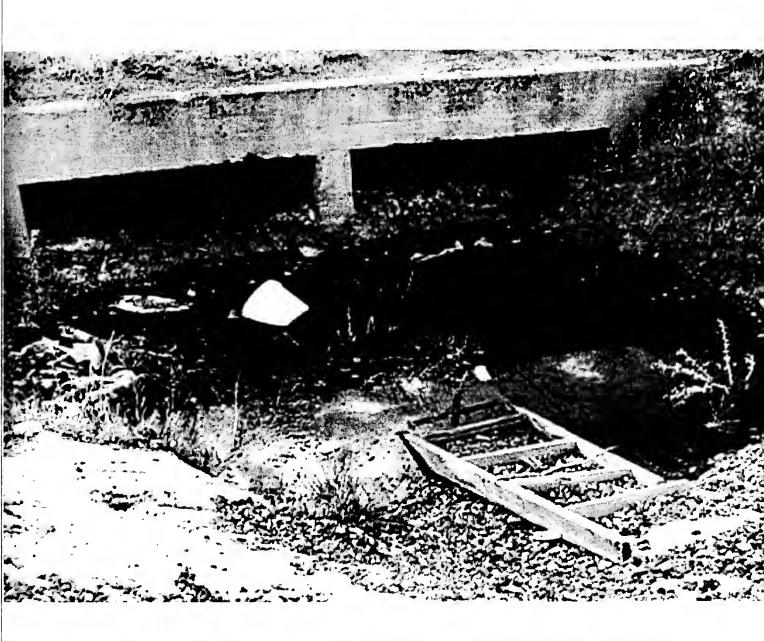


Figure 15. Outlet of the Lewis Coulee Storm Drain where it enters Belt Creek.



igure 16. Collection area for AMD from "Lewis Coulee above astner Park".

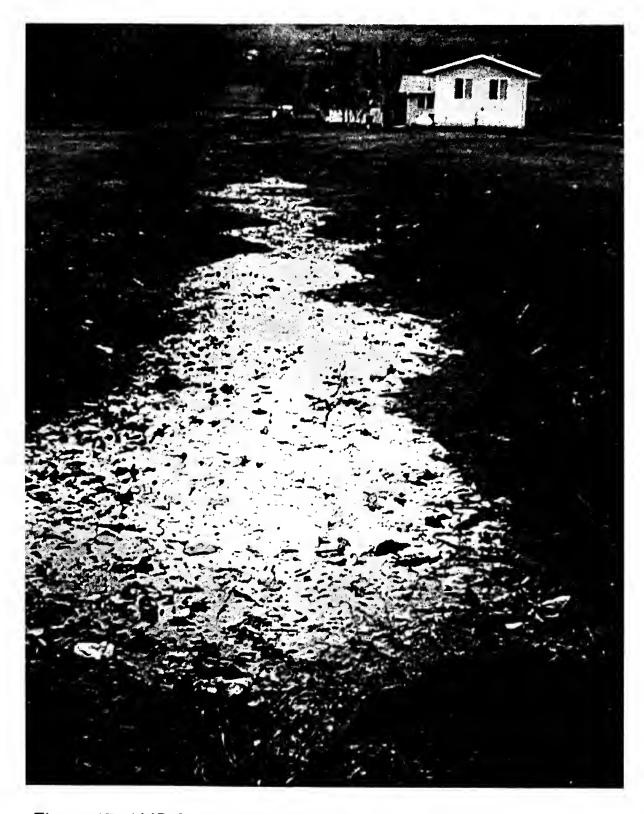


Figure 17. AMD from "Lewis Coulee above Castner Park" seeps into an unlined ditch.

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Belt Creek

Belt Creek starts near the top of the Little Belt Mountains flowing generally in a northward direction through the town of Belt and empties into the Missouri River about 15 miles north of Belt. Belt Creek is an intermittent stream with flows ranging from no-flow in late summer to nearly 800 cfs in the spring (Figure 18). The annual average flow of Belt Creek is 154 cfs; based on two years of monitoring. The main recharge to Belt creek is snow melt from the Little Belt Mountains located about 20 miles south of Belt. Belt Creek has segments that are influent (losing water to the channel) and effluent (gaining water from the channel). The Belt alluvial valley is underlain by the Swift Formation of the Ellis Group. The Swift Formation is a fine to course grained sandstone with interbeds of shale fragments with a thickness of 50 to 120 feet (Vuke and others, 2002). The Swift and alluvial aquifers located along Belt Creek are being directly recharged by the spring run off delivered by Belt Creek.

Belt Creek looses water in the reach from the Armington Bridge (GWIC ID 214386) to the bridge in downtown Belt (Figure 18). A gaining reach of Belt Creek starts just below the Belt Bridge; based on higher flows and cooler average water temperatures which suggest the influence of ground water. Gains in flow are also evident between the Belt Bridge (GWIC ID 214387) and the downstream private bridge (GWIC ID 214389). Other minor gaining and losing reaches of Belt Creek have been observed, but were less significant than those identified in the above section. During periods of low flow, AMD discharges from the Anaconda Mine provide all the water to Belt Creek.

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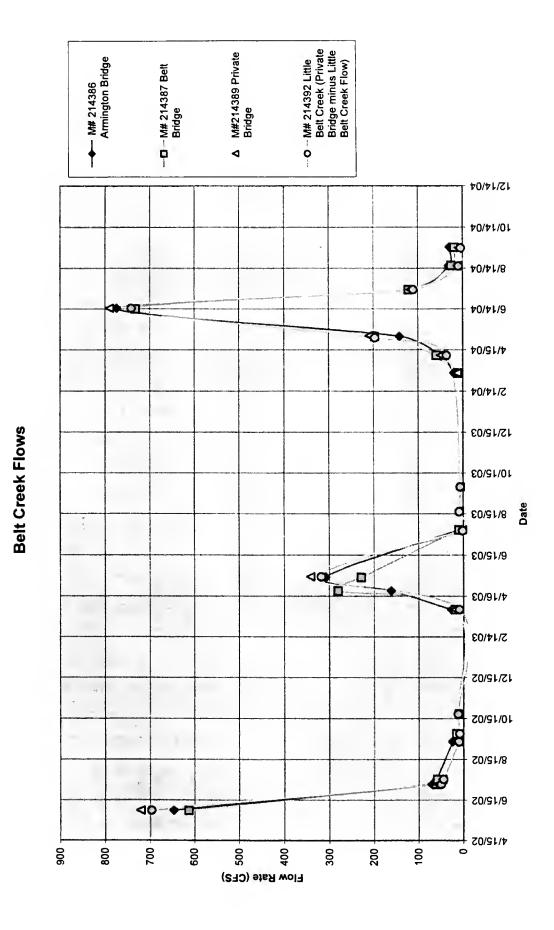


Figure 18. Stream flows along Belt Creek.



Small Streams and Springs

Within the study area, four tributary streams were monitored. Big Otter Creek, French Coulee Highway Drain and Little Belt Creek are all tributary streams that flow into Belt Creek. Box Elder Creek is a tributary of the Missouri River. Stream flow and field water-quality parameters were periodically monitored at these streams (Figure 19).

Big Otter Creek (GWIC 1D 214391) is located about 3.5 miles south of the town of Belt. Big Otter Creek is an intermittent stream which occasionally goes dry in late summer. The flows range from no-flow to 28 cfs with an average of 7 cfs flowing into Belt Creek.

French Coulee Highway Drain (GWIC ID 200617) is located about one mile south of Belt, near the main Anaconda Mine adit. The creek is piped under the highway fill, draining both the French Coulee and runoff from the highway. This drain is a perennial stream with flows ranging from 1 gpm to 171 gpm with an average flow of 27 gpm emptying into Belt Creek. The stream is of good water quality, but AMD appears to be seeping out of the hillside on the north embankment. On the south embankment, there is a 2-inch PVC pipe draining water from a small seep associated with the highway fill that is referred to as the Highway Drain Seep (GWIC 1D 204710).

Little Belt Creek (GWIC ID 214392) is located about 3.5 miles north of the town of Belt. Little Belt Creek is a perennial stream with flows ranging from 0.1 cfs to 49 cfs with an average of 9 cfs emptying into Belt Creek.

Box Elder Creek is located about three miles to the west of Belt. This creek was monitored in three locations. The first monitoring site was a Parshall flume installed upstream, up-gradient from any possible mine workings. The flows ranged from no-flow to 145 gpm, with a mean flow of 18 gpm. The second monitoring site (GWIC ID 214393) was located down stream, about one mile where the stream is piped under the county road. The flows at this location ranged from no-flow to 709 gpm, with a mean flow of 81 gpm. The third monitoring site was a Parshall flume located about a half mile further downstream. The flows ranged from no-flow to 908 gpm, with a mean flow rate of 75 gpm. It has been speculated that water losses from Box Elder Creek may provide recharge to the Anaconda Mine. The hydraulic head is about 130 to 140 feet higher in Box Elder Creek than the elevation of the mine voids. This provides a potential head difference for flow from Box Elder Creek to the mine. Fractures in the Kootenai Formation could produce conduits

allowing flow from Box Elder Creek to the mine. Numerous springs enter into Box Elder Creek, between the upper and lower, flume making it difficult to assess gaining or losing conditions through this reach.

Several springs (GWIC ID's 213598, 205653, 207767, and 204516) were initially inventoried in our study area, but only a few were monitored on a regular basis. Most of the springs identified were contact springs discharging from the base of the Sunburst Formation. These springs flow all season with increased discharges corresponding to large precipitation events. Refer to Appendix C for flow rates and water-quality parameters on springs in this area.

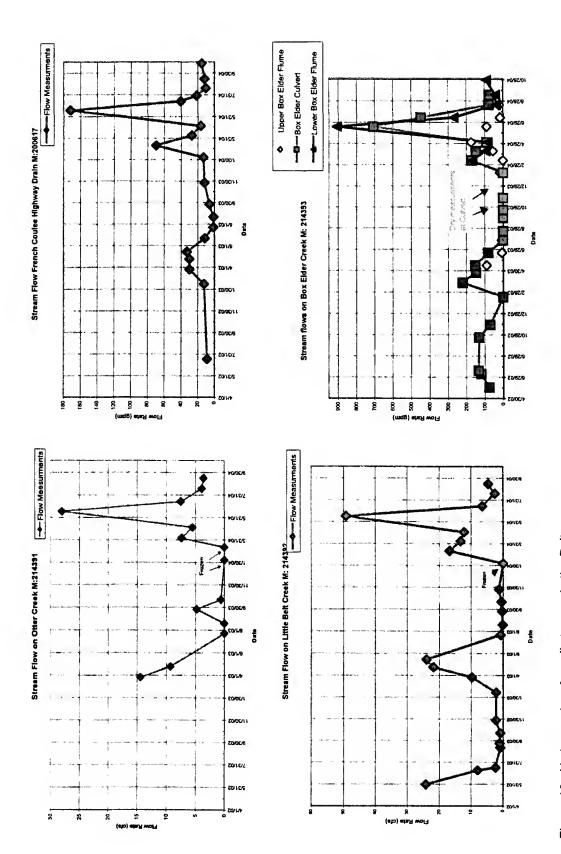


Figure 19. Hydrographs of small streams in the Belt area.

WATER-QUALITY ASSESSMENT

Field water-quality parameters measured as part of the well inventory and water-quality monitoring are shown in Appendix E. The range of dissolved minerals concentrations, oxidizing-reducing conditions, Dissolved Oxygen concentrations, temperature and pH of each water source were determined by evaluating these data. Variability of these parameters was also used to help determine seasonal fluctuations and the best time to collect representative samples.

Water-quality samples collected as part of this project are summarized in Appendix E. Source information and concentration data used for constructing the modified Schoeller plots are listed in Table 4. Modified Schoeller diagrams of major cations and anions were constructed to compare and contrast water quality of several water sources in the Belt area by plotting the dominant ions (Figure 20). The results of water analyses were grouped by water source (plotting lines using the same color) and were distinguished from similar sources (using solid and dashed lines).

The standard Schoeller plots were modified by adding Iron (Fe) and Aluminum (Al) to the list of dominant ions. Average concentrations for each constituent were calculated and converted from milligrams per liter (mg/L) to milliequivilants per liter (meq/L). When concentrations of a particular ion were below detection limits, a concentration value on half of the listed detection limit was used. In acidic waters, a low concentration value (0.0001) for the bicarbonate ion was used to allow construction of logarithmic plots.

Table 4. The average concentrations of major cations and anions (meq/L) from each source and the type of water based on dominant ions.

Source	Ca	Mg	Na	Fe	Al	HCO ₃	SO ₄	CI	TYPE
AMD Sunburst	10.674	8.283	0.571	28.863	31.488	0.000	86.880	0.381	Al-Fe-SO₄ Mg-Ca-
springs All	3.813	4.270	0.435	0.020	0.010	5.426	2.532	0.150	HCO ₃
Creeks Madison	3.724	2.620	0.383	0.414	0.006	4.532	1.703	0.141	Ca-HCO ₃ Ca-HCO ₃ -
wells Alluvial	4.232	2.353	0.205	0.001	0.002	3.850	2.955	0.048	SO ₄
wells	3.797	2.674	0.466	0.001	0.002	5.455	1.477	0.120	Ca-HCO₃
Till well Mine	1.282	5.374	1.583	0.001	0.002	6.231	1.230	0.231	Mg-HCO ₃
tailings well Sunburst	23.603	52.912	1.157	0.172	41.481	0.000	119.424	0.353	Mg-Al-SO₄ Mg-Ca-
wells Cutbank	3.395	4.573	1.534	0.006	0.002	7.124	1.981	0.210	HCO₃ Ca-Mg-
wells	3.480	2.540	0.360	0.026	0.002	4.848	1.418	0.086	HCO₃ Ca-Mg-
Coal well	4.990	3.925	0.966	0.005	0.002	6.826	2.394	0.080	HCO ₃ Ca-HCO ₃ -
Swift well	4.291	2.000	0.347	0.001	0.002	3.663	2.519	0.169	SO ₄

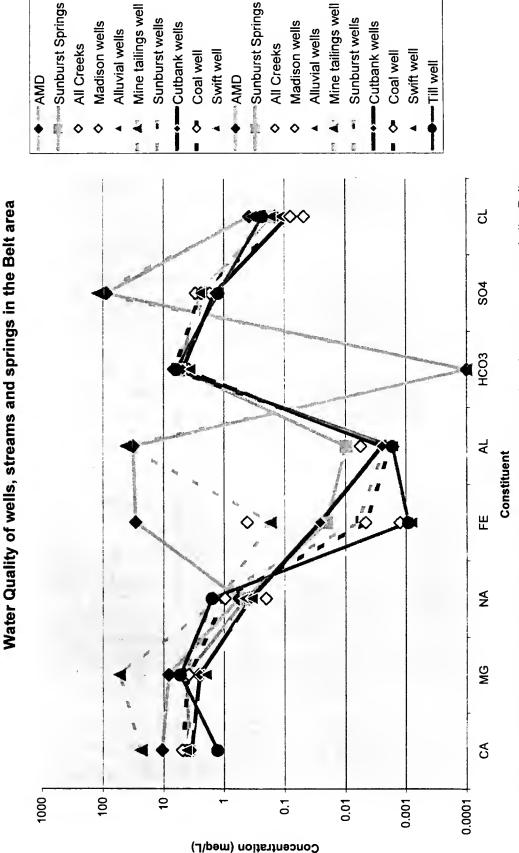


Figure 20. Schoeller diagram depicting average major ion concentrations from water sources in the Belt area.

Acid Mine Drainage (AMD) Water

Distinct characteristics of AMD discharges are visually, physically and chemically obvious. High iron concentrations form reddish-orange precipitates of iron-oxide minerals when exposed to oxygen in the atmosphere. These iron-oxide minerals frequently cement alluvial sand and gravel along streams impacted by AMD discharges. White to light gray colloidal discharges are common where high concentrations of aluminum hydroxide in ground water discharge into relatively fresh surface water; similar to what is found at the Belt "city swimming hole" (Figure 21). Field parameters of AMD discharges include pH values ranging from 1.75 to 3.99 and an average SC of 3,585 µmhos/cm. Sources of the iron, sulfate, and acidity are pyrite deposits commonly associated with coal deposits. Previous work in the Sand Coulee area identified high concentrations of acid-producing material in the Cutbank sandstone roof rock immediately above the coal (Wheaton and Brown, 1999). Since the same coal bed was mined in the Anaconda Mine at Belt, it appears that the source of acid is likely to be similar. No cores were collected in the Belt area, but pyrite deposits overlying or within the coal appear to be primary source of AMD.

AMD samples near Belt were collected from the Anaconda Mine (GWIC ID 200616 average discharge 132 gpm), French Coulee Mine (GWIC ID 200615 average discharge 9 gpm), and Lewis Coulee area mines (GWIC ID 214914 and GWIC ID 214915~average discharge 5 gpm). Samples of AMD discharges are dominated by ions of Aluminum (Al), Iron (Fe) and Sulfate (SO₄), (Al-Fe-SO₄ type water). The pH of the AMD ranged from 2.4 to 4.1. The average calculated dissolved solids (CDS) of the AMD discharges were 5,378 mg/L, average dissolved iron concentrations 537 mg/L, average dissolved aluminum concentrations 283 mg/L and average dissolved manganese (Mn) concentrations 0.682 mg/L. Piper plots (Figure 22) of AMD show a mixed dominance of Calcium (Ca) and Magnesium (Mg) cations and a strong dominance of Sulfate (SO₄) anions. These dominant cations are misleading however, since Al and Fe are the dominant cations; yet neither was included in the construction of the piper plots. The Schoeller diagram (Figure 20) more accurately depicts the dominant ions. The quality of AMD water was not uniform from the different sources. The Anaconda Mine had the freshest water with calculated dissolved solids (CDS) averaging 2,346 mg/L, average dissolved iron concentrations 152 mg/L, average dissolved aluminum concentrations 104 mg/L and average dissolved

		140	

manganese concentrations 0.417 mg/L. AMD water from the Lewis Coulee Mine and "Lewis Coulee above Castner Park" were similar at intermediate concentrations with an average CDS of 5,800 mg/L, average dissolved iron concentrations 615 mg/L, average dissolved aluminum concentrations 336 mg/L and average dissolved manganese concentrations 1.15 mg/L. The French Coulee Mine drainage had the most concentrated water with calculated dissolved solids (CDS) averaging 8,566 mg/L, average dissolved iron concentrations 939 mg/L, average dissolved aluminum concentrations 468 mg/L and average dissolved manganese concentrations 0.900 mg/L.

A sample of water extracted from a well completed in mine tailings near the Coke Oven Flats also shows impacts of AMD. Water from this well is dominated by ions of magnesium (Mg), aluminum (Al), and sulfate (SO₄), (Mg-Al-SO₄ type water). The mine tailings water was similar to AMD on the Schoeller diagram. In the mine tailings water, there were lower concentrations of dissolved iron and higher concentrations of dissolved magnesium. The pH and the CDS of the water in the mine tailings are 4.48 and 7,286 mg/L respectively. The concentrations of other significant constituents were the average dissolved iron concentrations 3.21 mg/L, average dissolved aluminum concentrations 373 mg/L, and average dissolved manganese concentrations 5.98 mg/L. Iron concentrations are significantly lower and manganese concentrations significantly higher than measured in any of the AMD discharges. These chemical differences suggest that dissolved iron may be depleted in the mine tailings, while dissolved magnesium and manganese are enriched. Water discharging into Belt Creek from the mine tailings appears related to the aluminum hydroxide discharges visible at the Belt "city swimming hole".





Figure 21. Aluminum hydroxide discharging into Belt Creek at the Belt "city swimming hole"

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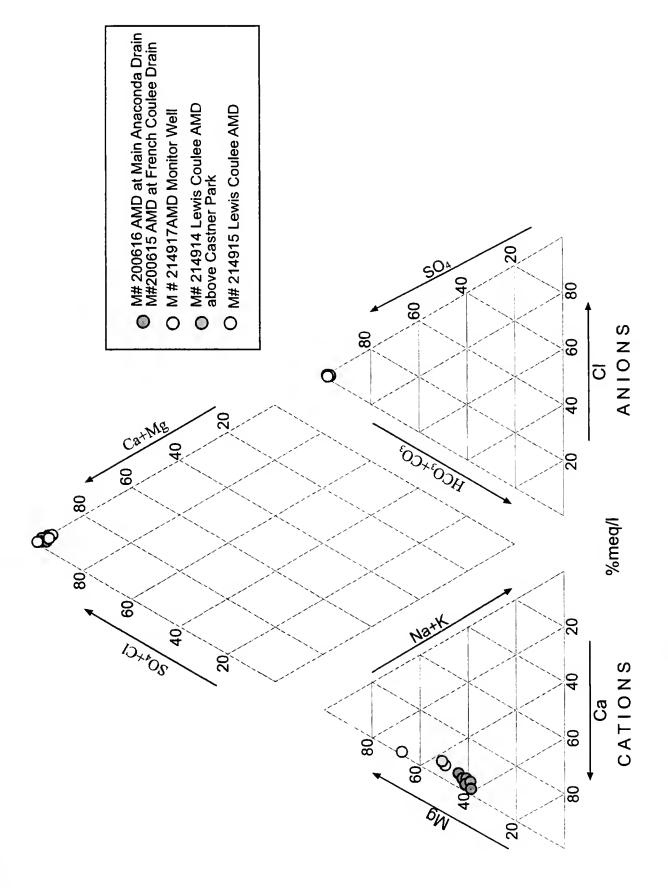


Figure 22. Piper plot of Acid Mine Drainage water in the Belt area.

Surface Water

Belt Creek and Box Elder Creek

The two main streams (Belt Creek and Box Elder Creek) in the vicinity of the Anaconda Mine contain relatively good quality water; where not impacted by AMD. Piper plot (Figure 23) of Belt and Box Elder Creek samples were dominated by ions of calcium (CA) and bicarbonate (HCO₃), (CA- HCO₃ type water). The laboratory pH of all samples from these Creeks ranged from 5.83 to 8.12 and the average CDS was 353 mg/L. Schoeller diagrams of major ions from Box Elder and Belt Creeks were very similar to the diagrams constructed using average concentrations in samples from alluvial wells (figure 20). This demonstrates the close hydrologic relationship between these sources. The two plots are virtually identical with the exception of elevated concentrations of dissolved iron and aluminum ions in the stream samples. The anomalies in the average concentrations of these ions were caused by elevated concentrations in Belt Creek that are clearly associated with AMD.

Water samples from Belt Creek were collected at several locations, including the following locations: Armington Bridge (GWIC ID 214386); Belt (GWIC ID 205836); Belt (GWIC ID 205838); Belt (GWIC ID 205839); near city well (GWIC ID 205508); below Lewis Coulee discharges (GWIC ID 214916); above swimming hole (GWIC ID 214911); and at the north extent of mine tailings (GWIC ID 214913). The pH of Belt Creek ranged from 5.83 to 7.83. The average calculated dissolved solids concentrations (CDS) of Belt Creek were 326 mg/L, average dissolved iron concentrations 1.03 mg/L, average dissolved aluminum concentrations 73 micrograms/L (μg/L), and average dissolved manganese concentrations 0.08 mg/L. The quality of water along Belt Creek showed impacts of AMD with elevated concentrations of metals associated with areas of surface and ground water acidic discharges. Metals loading to Belt Creek will be discussed in a later section of this report.

Water samples from Box Elder Creek were collected at the upper flume (GWIC ID 203450) and the lower flume (GWIC ID 203451). The pH of Box Elder Creek ranged from 6.44 to 8.26. The average calculated dissolved solids concentrations (CDS) of Box Elder Creek were 371 mg/L. The average dissolved iron concentrations were 0.03 mg/L. Average dissolved aluminum concentrations 84.4 µg/L and average dissolved manganese

concentrations 0.08 mg/L. The quality of water along Box Elder Creek does not appear to be impacted by AMD and no known AMD discharges have been identified along this creek.

Other small streams, including Little Belt Creek and Otter Creek, were not sampled. Based on field values, these streams are relatively fresh and have not been impacted by AMD.

Sunburst springs

Several springs discharging from the Sunburst aquifer were sampled. These include the French Coulee Highway Drain (GWIC ID 200617), a small seep referred to as the Highway Drain seep (GWIC ID 204710), and four relatively fresh springs along upper French Coulee and Box Elder Creek (GWIC ID's 213598, 205653, 207767, and 204516). Sunburst aquifer spring samples are dominated by ions of magnesium (Mg), calcium (Ca) and bicarbonate (HCO₃), (Mg-Ca- HCO₃ type water) as shown in the Piper Plot (Figure 24) and the Schoeller diagram (Figure 20). The laboratory pH of all samples from these sources ranged from 7.08 to 8.36 and the average CDS was 830 mg/L. Nitrate concentrations of the Sunburst springs range from less than 0.05 to 25.6 mg/L and nearly all of the samples had concentrations greater than 1 mg/L. The elevated nitrate concentrations appear to be associated with fertilizer applications on the small grain cropland that makes up most of the recharge areas to these springs.

The four fresh Sunburst springs had an average CDS concentration of 298 mg/L. These springs had very low average sulfate concentrations (29 mg/L) and chloride concentrations (3 mg/L). Nitrate concentrations were variable, but typically relatively high. The CDS of spring discharges in the French Coulee Highway Drain averaged 516 mg/L. This drain had intermediate average sulfate concentrations (164 mg/L) and low to intermediate chloride concentrations (6 mg/L). Nitrate concentrations were variable, but typically relatively high. The small seep in the Highway Drain has significantly different water quality than the other Sunburst springs. The average CDS of this water is 3,255 mg/L; nearly 3 times as concentrated as the fresh Sunburst springs. The average sulfate concentration is 2,109 mg/L, which is more than one order-of-magnitude greater than the Highway Drain and nearly two orders-of-magnitude greater than the fresh Sunburst springs. Water from this seep contains anomalously high concentrations of chloride ions.

Water qualities of the French Coulee Highway Drain and the small seep associated with the drain have relatively neutral pH and appear to have been degraded by a source other than AMD. The water appears to be associated with construction of the highway grade that these springs drain. The fill material may contain higher concentrations of salts than the typical Sunburst aquifer. In addition, pulses of calcium chloride appear to be cyclical and may relate to wintertime applications of road salt.

The water quality of samples from Sunburst springs is very similar to samples from Sunburst aquifer wells (Figure 20). The average dissolved concentration of most ions from the spring samples are higher than ions from well samples. Salts may be more available for leaching in the highway fill. In addition, elevated concentrations of dissolved iron and aluminum ions may indicate an additional source of AMD.

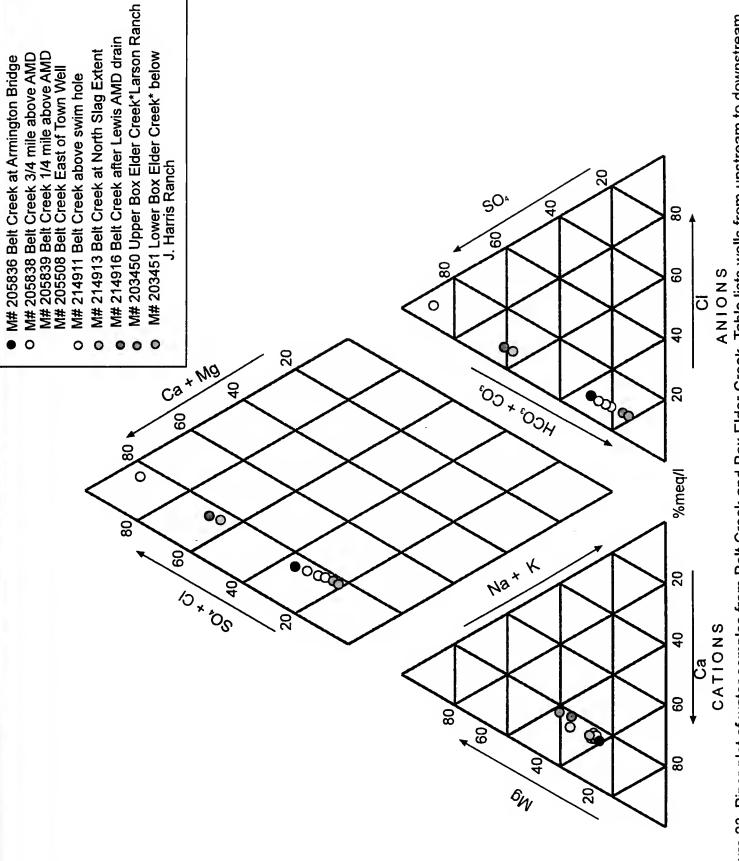


Figure 23. Piper plot of water samples from Belt Creek and Box Elder Creek. Table lists wells from upstream to downstream.

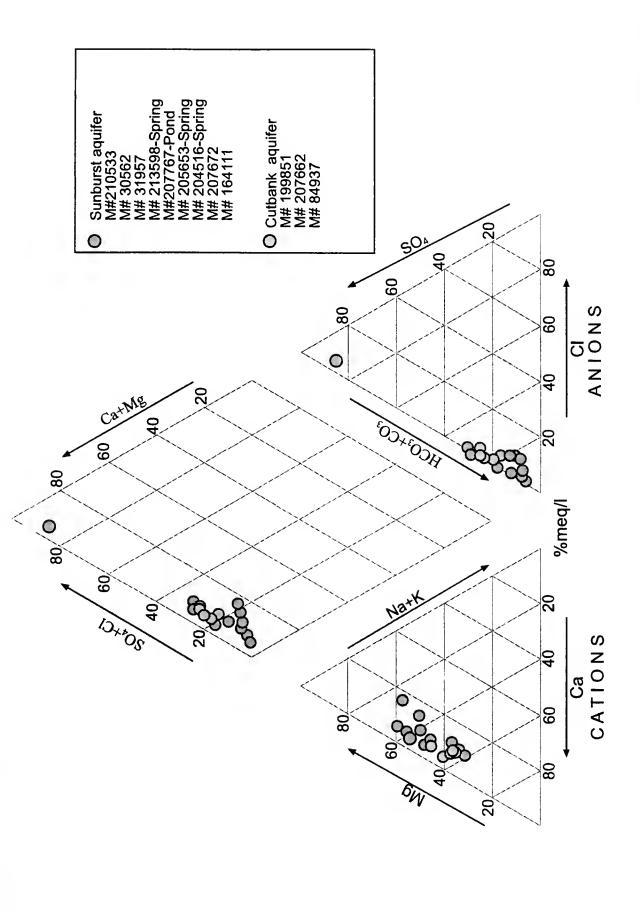


Figure 24. Piper plots of water samples from wells and springs in the Sunburst aquifer and wells in the Cutbank aquife Both aquifers are developed in sandstone of the Kootenai Formation.

Ground Water

Several aquifers were sampled and water-quality data compiled from the Belt area. These include the alluvial aquifer along Belt Creek and Box Elder Creek, the Kootenai aquifer system (including the Sunburst aquifer and the Cutbank aquifer), the Morrison aquifer (represented by one well into the coal bed), the Swift aquifer, and the Madison aquifer.

Alluvial aquifer

Three samples collected from two wells completed in the alluvial aquifer were analyzed for dissolved constituents. A well along Box Elder Creek (GWIC ID 32015) was sampled twice and a well along Belt Creek (GWIC ID 186483) was sampled once. The alluvial aquifer samples are very similar to each other and are dominated by ions of dissolved calcium (Ca) and bicarbonate (HCO₃), (Ca- HCO₃ type water) as shown in the Piper Plot (Figure 25) and the Schoeller diagram (Figure 20). The laboratory pH of all samples from these wells ranged from 7.66 to 7.68 and the average CDS was 372 mg/L. Dissolved nitrate concentrations from the alluvial well along Belt creek was 0.66mg/L and concentrations from the well along Box Elder Creek averaged 1.04 mg/L. The slightly elevated nitrate concentrations in the Box Elder Creek alluvium are associated with discharge of Sunburst springs that appear to be impacted by fertilizer applications. The average concentration of dissolved iron was 0.018 mg/L and ranged from 0.012 to 0.023. Neither of these wells appears to be impacted by AMD. As previously discussed, the water quality of alluvial aquifer water samples is very similar to the stream samples.

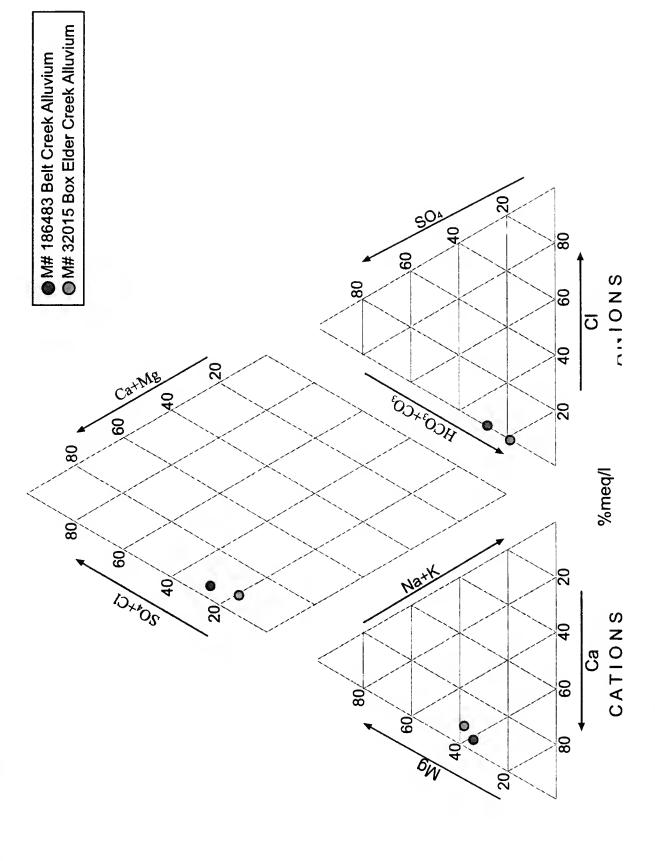


Figure 25. Piper plot of water samples from well completed in alluvium of Belt Creek (GWIC ID 186483) and Box Elder Creek Alluvium (GWIC ID 32015).

Sunburst aquifer

Nine wells completed in the Sunburst aquifer were sampled (GWIC ID's 210533, 30562, 31957, 213598, 207767, 205653, 204516, 207672, and 164111). Sunburst aquifer samples are dominated by ions of magnesium (Mg), calcium (Cg) and bicarbonate (HCO₃), (Mg-Ca- HCO₃ type water) as shown in the Piper Plot (Figure 24) and the Schoeller diagram (Figure 20). The laboratory pH of all samples from these sources ranged from 7.26 to 8.00 and the average CDS was 491 mg/L. Nitrate concentrations of the Sunburst aquifer ranged from less than 0.05 to 11.8 mg/L. Nearly all of the samples had concentrations greater than 1 mg/L. The elevated nitrate concentrations appear to be associated with fertilizer applications on the small grain cropland that makes up most of the recharge areas to these wells. Orthophosphate (OPO₄) concentrations ranging from 0.1 to 0.2 mg/L were identified in samples from two recently drilled wells located above or adjacent to the Anaconda Mine. No other Sunburst aquifer samples had detectable concentrations of this constituent and it is plausible that these observations are the result of fertilizer impacts with infiltration enhanced by fractures developed over the abandoned mine workings. As previously discussed, the water quality of Sunburst aquifer water samples is very similar to the Sunburst spring samples. The Sunburst wells have an overall lower CDS than the Sunburst springs. This observation is a result of the springs being impacted by AMD, whereas water quality of the wells is not impacted.

Cutbank aquifer

Three wells completed in the Cutbank aquifer were sampled (GWIC ID's 199851, 84937 and 207662). The average concentration of Cutbank aquifer samples are dominated by ions of calcium (Ca) magnesium (Mg), and bicarbonate (HCO₃), (Ca-Mg-HCO₃ type water) as shown in the Piper Plot (Figure 24) and the Schoeller diagram (Figure 20). The laboratory pH of all samples from these sources ranged from 7.26 to 7.58 and the average CDS was 339 mg/L. Nitrate concentrations of the Cutbank aquifer ranged from less than 0.05 to 2.17 mg/L. Orthophosphate concentrations of 0.054 mg/L were identified in one Cutbank aquifer well that is located adjacent to the Anaconda Mine. It is plausible that this observation is the result of fertilizer impacts with infiltration enhanced by fractures developed over the abandoned mine workings. Schoeller diagrams of major ions from the Cutbank aquifer were

very similar to the diagrams constructed using average concentrations in samples from a well completed in the coal bed at the top of the Morrison Formation (GWIC ID 215048). This demonstrates the close hydrologic relationship between these sources and supports well-log data indicating these units are part of a single aquifer.

Madison aquifer

Six wells completed in the Madison aquifer were sampled (GWIC ID's 196148, 150504, 31978, 2315, 215047 and 177163). Madison aquifer samples are dominated by ions of calcium (Ca), bicarbonate (HCO₃), and sulfate (SO₄) (Ca-Mg-HCO₃-SO₄ type water) as shown in the Piper Plot (Figure 26) and the Schoeller diagram (Figure 20). The laboratory pH of all samples from these sources ranged from 7.46 to 8.05 and the average CDS was 390 mg/L. Nitrate concentrations of the Madison aquifer were very low. AMD impacts were not evident in any of these samples. Sulfate ions are the second dominant anion in Madison water samples. Since no other metals have elevated concentrations, it appears that the Madison aquifer in the Belt area has relatively high concentrations of sulfate anions in comparison to other aquifers. Schoeller diagrams of major ions from the Madison aquifer were very similar to the diagrams constructed using average concentrations in samples from a well completed in the Swift aquifer (GWIC ID 145604). These aquifers are hydrologically connected in some areas and are likely to have similar water quality.

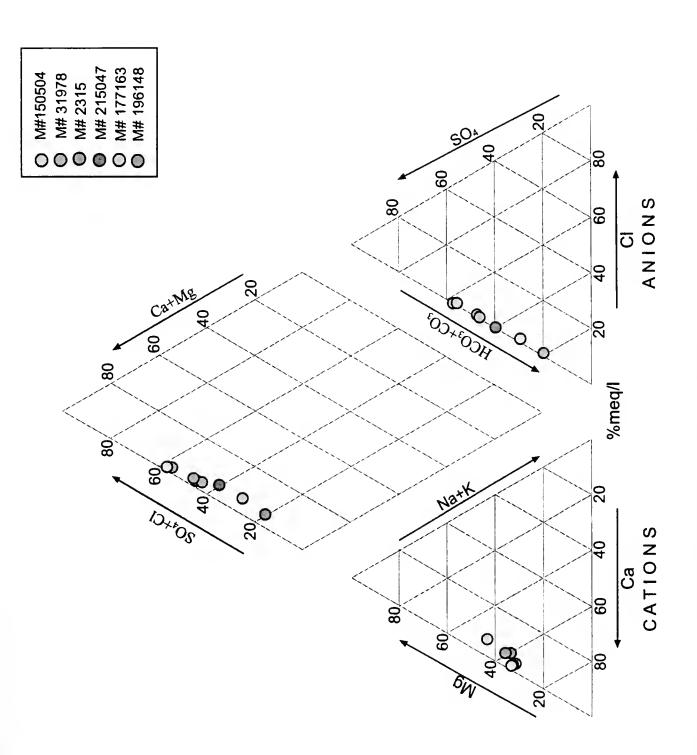


Figure 26. Piper plots of water samples from the Madison aquifer in the Belt area.

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Other aquifers

Piper plots of water-quality data from other aquifers are shown in Figure 27 and the Schoeller diagram in Figure 20. These aquifers include a well completed in a glacial till aquifer (GWIC ID 231952), a well completed in the Morrison Coal (GWIC ID 215048), and a well completed in the Swift aquifer (GWIC ID 145604). All of these wells, except for the glacial till aquifer, have been covered in previous discussions. The glacial till well is located several miles north of the Anaconda Mine. The main interest in discussing the water quality from this well is to show the variability of water quality in the Belt area. Water in the till aquifer is dominated by ions of magnesium (Mg) and bicarbonate (HC0₃) (Mg-HC0₃ type water). The pH of the till well was 7.97 and CDS was 413 mg/L. Nitrate concentrations were 10.77 mg/L; which is above the drinking water standard. Water in this well appears to be impacted by an agricultural source; possibly fertilizer or animal waste. AMD impacts have not affected water in this well.

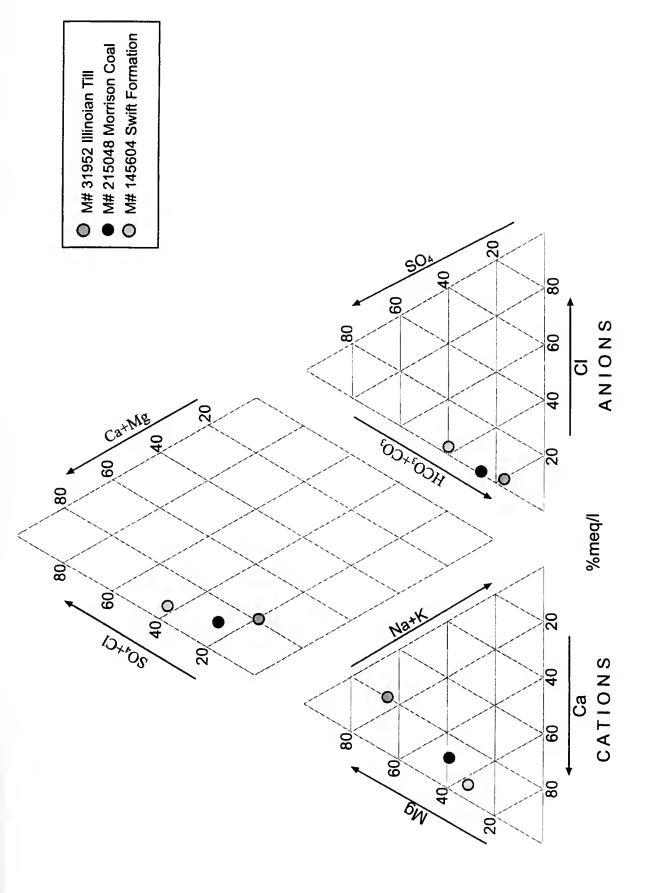


Figure 27. Fiper piot of water samples from other aquifers in the Belt area.

ISOTOPE ASSESSMENT

Stable Isotopes

The stable isotope of oxygen-18 (18 O) was analyzed in ground-water to determine recharge sources. The value of δ 18 O in precipitation is influenced by meteorological processes and particularly by the temperature, elevation, and latitude of the rain or snowfall event (Clark and Fritz, 1997). Precipitation occurring over warmer climates, low elevations, and low latitudes has higher (less depleted) δ 18 O values than precipitation occurring over colder climates, higher elevations, and higher latitudes (Olson and Reiten, 2002).

Values of δ ¹⁸O from 35 samples range from -19.79 to -15.34 per mill (Figure 28). Samples from the Madison aquifer have relativity low values ranging from -19.64 to -18.67 per mill. They also have a narrow value range, suggesting the recharge is likely from snowfall. The Kootenai aquifer has a wide value range from -19.79 to -15.34 per mill, implying the recharge is by snowfall mixing with rain events. AMD water plots near the midpoint of the range of Kootenai aquifer waters possibly suggesting this aquifer is the source of the AMD. Surface water, Swift Formation water, and alluvial water samples have a similar range; indicating a mixture of snowmelt and rainfall and possible mixing between these sources. A sample taken from the Missouri River, at Toston in May, 1986, indicated snow melt was the dominant recharge source, later mixing with rain fall (Coplan and Kendall, 2000). The map view of δ ¹⁸O values shows no obvious trend over the study area.

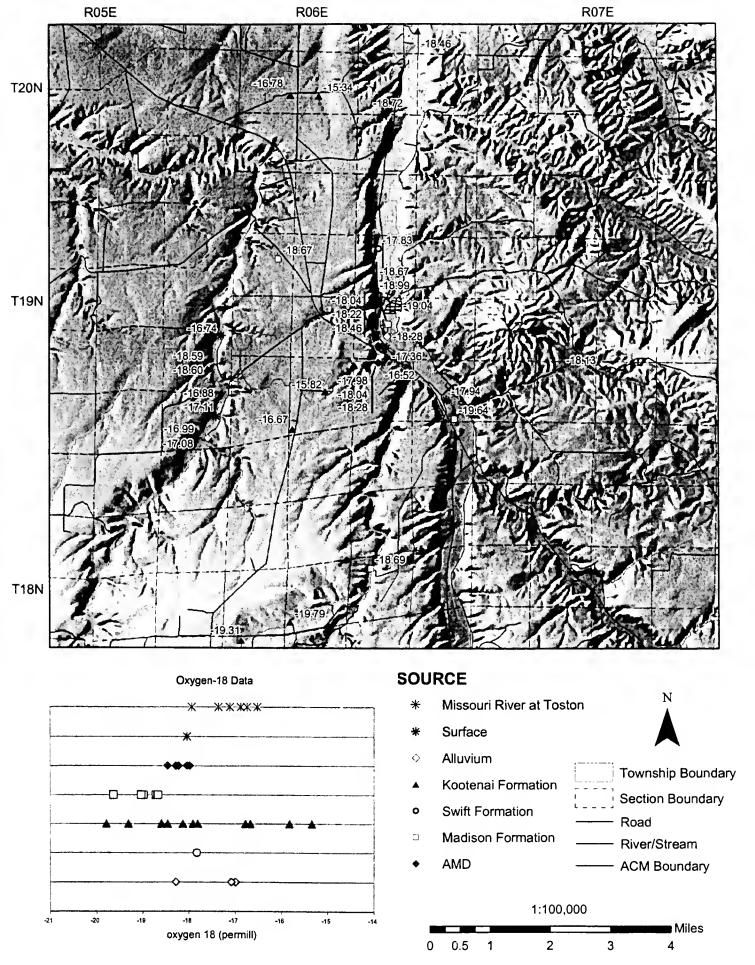


Figure 28. Map and chart showing Oxygen 18 isotopes by water source.

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Average Residence Time of Ground Water

Tritium (³H) is a radioactive isotope of hydrogen that decays with a half-life of 12.43 years and is contained at ambient levels in precipitation as it falls to the earth. Tritium is produced naturally in the atmosphere by interaction of cosmic rays with nitrogen and oxygen; but nuclear bombs, tested between 1952 and 1969, released large quantities of tritium into the atmosphere. Therefore, precipitation during times of nuclear testing contained very high concentrations of tritium. According to the decay equation (Clark and Fritz, 1997), as the precipitation infiltrates into the ground, recharging the aquifers, the radioactive tritium decays to helium-3 (³He). The age of the water sample is determined by the ratio of the parent (³H) to the daughter (³He). The relative age can be estimated using the tritium concentration alone. Table 5 lists tritium concentration and age of water based upon a linear interpretation of data (Hendry and Schwartz, 1990).

Table 5. Age date of ground water estimated from tritium concentration.

Tritium	
Concentration	Age Interpretation (modified from Hendry,
(Tu)	1988)
	Average ground-water likely recharged
	during peak of thermo-nuclear testing
>38	between 1960-1965
4-38	Average ground-water less than 50 years old
1-4	Average ground-water less than 35 years old
	Average ground-water older than 45 years
<1,>0.1	old
	Average ground-water older than 65 years
< 0.1	old

Most of the samples collected in Belt had tritium concentrations ranging from 4-38 Tritium Units (TU). This implies the average residence time of ground water is less than 50 years old. Some samples ranged between 1-4 TU. This implies the recharge is less than 35

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years old. Figure 29 displays how tritium concentrations vary across each aquifer. There was no obvious trend of tritium concentrations or ages either within specific hydrogeologic sources or by map locations of the sample sites. A few general similarities within and between groups were noted. A similar range of tritium concentrations are shown in the surface-water samples, AMD water samples, the Swift Formation water samples, and alluvial water samples. Tritium concentrations from Madison aquifer wells demonstrated the tightest grouping with TU values ranging from 11-14 for all but one sample. The Kootenai Formation water samples displayed the widest spread with TU values ranging from about 1 to greater than 20. The range of tritium concentrations in the AMD water samples tended to concentrate near the midpoint of Kootenai aquifer water samples. One possible explanation of the large range in the Kootenai samples is that many parts of the aquifer have poor hydraulic connections.

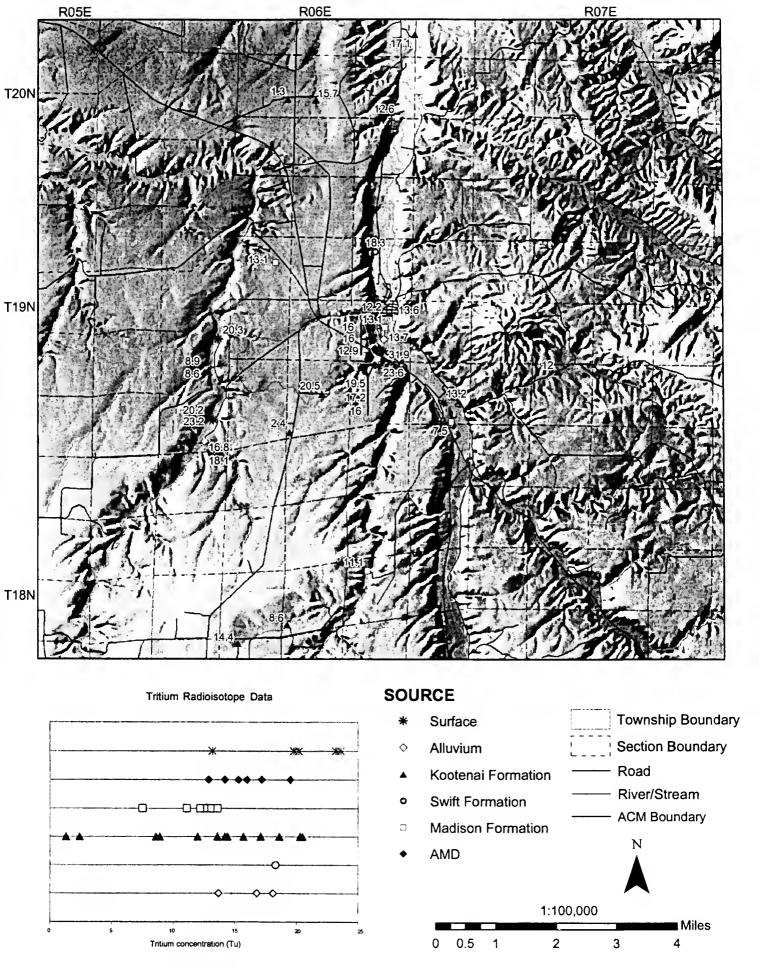


Figure 29. Map and chart showing tritium concentration by water source.

The more specific apparent ages of ground water can be estimated using the helium-3/tritium method and the chlorofluorocarbon method. Helium-3/tritium ages were estimated from two samples. A Madison aquifer sample (GWIC ID 177163) was dated at 8 years and a Kootenai aquifer sample (GWIC ID 193220) was dated at 22 years (Figure 30).

Chlorofluorocarbons (CFC) are anthropogenic components of the atmosphere that have increased in concentrations from the 1940's to the 1990's. Chlorofluorocarbon samples were also collected as another method of age-dating ground-water from the Belt area. Concentrations of three different CFC compounds (CFC-11, CFC-12, and CFC-13) can be used to estimate the average residence time of ground water (Warner and Weiss, 1985; Bu and Warner, 1995; and Prinn and others, 2000). The best recharge age estimates are typically determined by measuring CFC-12 compounds because the concentration levels are still rising and they appear to exhibit the most conservative behavior (Cook and others, 1995). Both CFC-11 and CFC-13 have leveled off since the 1990's, making two recharge ages possible on either side of the curve (younger or older). If the CFC concentrations results are supersaturated, it indicates the atmosphere is not the sole source of CFCs to the aquifer. The sample could be contaminated by industrial or urban CFC sources. Other complications involve determining the temperature of the water, as it recharged the aquifer, and the elevation of the recharge area. Varying these factors can significantly change the estimated average residence time of ground water. CFC age estimates ranged from very recent to as old as 42 years (Table 6).

The CFC age estimates and the helium-3/tritium age estimates confirmed the modern ages of water indicated by the tritium concentrations. All valid samples confirmed that the age of water in these aquifers is less than 50 years old. The cause of the high rate of supersaturated CFC results is unknown.

Both CFC and helium-3/tritium age estimates were determined at two sample sites. At well (GWIC ID 193220), the relatively close agreement between the CFC age (17 years) and the helium-3/tritium age (22 years) suggest that the Kootenai aquifer water is about 20 years old. The water in the Madison aquifer at well (GWIC ID 177163) is about 8 years old based on the helium-3/tritium method, but cannot be determined based on the CFC method.

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The relatively young age of the stratigraphically deeper Madison water suggests a higher rate of ground-water flux through the Madison aquifer than through the Kootenai aquifer.

It is difficult to have a great deal of confidence in apparent age dates from the various methods described above. The most significant observation from this assessment is that the water tested from all significant aquifers contained modern recharge.

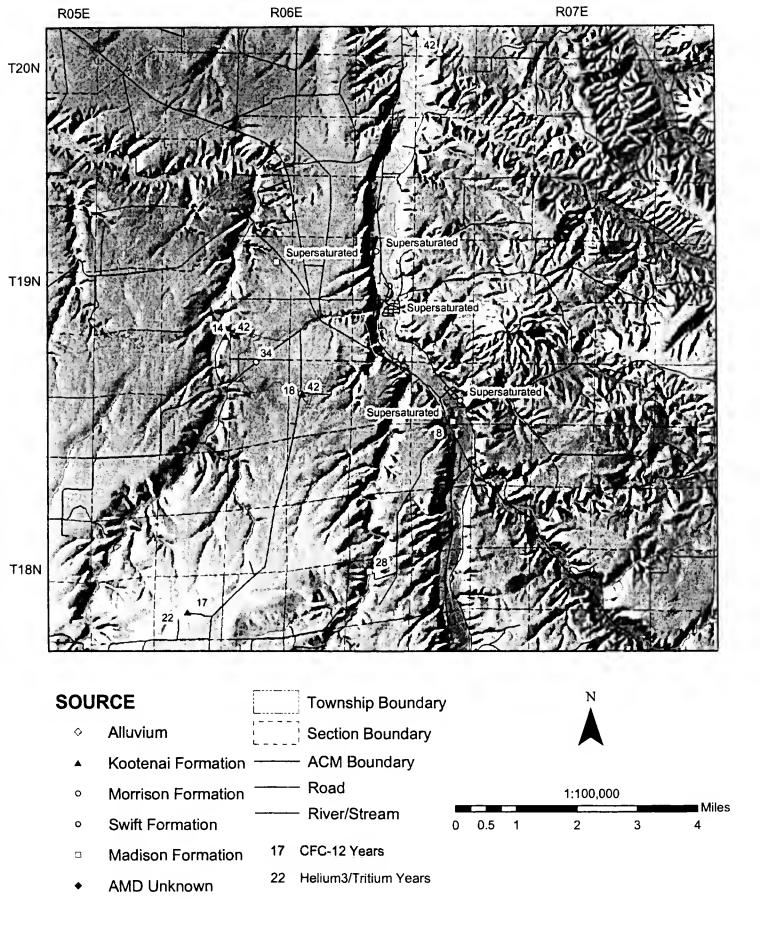


Figure 30. Map showing average residence time of ground water.

								
GWIC	Sample	Recharge	Recharge	Aquifer	CFC12	error	CFC11	error
ID	Date	Elev. (m)	Temp °C		years	years	years	years
207258	5/5/2004	1152	10.66	Kootenai	14	2	26	2
207258	5/5/2004	1152	10.66	Kootenai	13	2	26	2
207258	5/5/2004	1152	10.66	Kootenai	13	2	26	2
164111	5/6/2004	1039	10.37	Kootenai	Obscured by H₂S		47	2
164111	5/6/2004	1039	10.37	Kootenai	42	2	47	2
164111	5/7/2004	1039	10.37	Kootenai	42	2	47	2
207662	5/7/2004	1177	10.02	Kootenai	41	2	39	2
207662	5/7/2004	1177	10.02	Kootenai	42	2	39	2
207662	5/6/2004	1177	10.02	Kootenai	43	2	39	2
210533	5/6/2004	1338	8.17	Kootenai	18	2	21	2
210533	5/6/2004	1338	8.17	Kootenai	17	2	21	2
210533	5/6/2004	1338	8.17	Kootenai	17	2	21	2
217056	10/28/2004	1213	8.88	Kootenai	Obscured by H₂S	2	41	2
217056	10/28/2004	1213	8.88	Kootenai	40	2	39	2
217056	10/28/2004	1213	8.88	Kootenai	40	2	38	2
215048	10/27/2004	1213	8.83	Morrison	17	2	29	2
215048	10/27/2004	1213	8.83	Morrison	Obscured by H₂S	2	31	2
215048	10/27/2004	1213	8.83	Morrison	19	2	30	2
217052	12/30/2004	1201	8.82	Morrison	34	2	38	2
217052	12/31/2004	1201	8.82	Morrison	35	2	39	2
217052	1/1/2005	1201	8.82	Morrison	34	2	37	2
145604	5/6/2004	1067	9.11	Swift	1Supersaturated		1Supersaturated	
145604	5/6/2004	1067	9.11	Swift	1Supersaturated		1Supersaturated	
145604	5/6/2004	1067	9.11	Swift	1Supersaturated		1Supersaturated	
217922	7/14/2004	1085	9.5	Swift	1Supersaturated		1Supersatureted	
217922	7/14/2004	1085	9.5	Swift	1Supersaturated		1Supersaturated	
217922	7/14/2004	1085	9.5	Swift	1Supersaturated		1Supersaturated	
196148	5/3/2004	1676	10	Madison	28	2	30	2
196148	5/3/2004	1676	10	Madison	27	2	29	2
196148	5/3/2004	1676	10	Madison	28	2	29	2
2315	5/6/2004	1676	11.1	Madison	1Supersaturated		22	2
2315	5/6/2004	1676	11.1	Madison	1Supersaturated		22	2
2315	5/6/2004	1676	11.1	Madison	1Supersaturated		23	2
177163	7/29/2004	1676	9.63	Madison	1Supersaturated		1Supersaturated	}
177163	7/29/2004	1676	9.63	Madison	1Supersaturated		1Supersaturated	
177163	7/29/2004	1676	9.63	Madison	1Supersaturated		1Supersaturated	
31978	7/29/2004	1676	11.39	Madison	1Supersaturated		1Supersaturated	
31978	7/29/2004	1676	11.39	Madison	1Supersaturated		1Supersaturated	

29/2004 1676 11.39 **Table 6. Summary of CFC results.**

7/29/2004

31978

Madison

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ACID MINE DRAINAGE IMPACTS

Loading From AMD Discharge

Five sources of AMD discharges were identified in the Belt area. Two are direct discharges to Belt Creek: the main Anaconda Mine Drain and the Lewis Coulee Mine Drain. In addition, indirect discharges were identified from the French Coulee Main Drain and the Lewis Coulee Drain above Castner Park. Another source of indirect AMD discharge is not from a mine drain, but from seepage from Coke Oven Flats; a 27 acre area of reclaimed coal waste located near the Anaconda Mine Drain (DEQ, 2000).

Based on this work and other ongoing MBMG research, the direct loading to Belt Creek from AMD is estimated to be 103,300 pounds of iron per year and 64,986 pounds of aluminum per year (Figure 31). Indirect loading to Belt Creek, from other AMD drains moving through alluvial sediments, is estimated to be 40,080 pounds of iron per year and 28,327 pounds of aluminum per year. This indicates indirect loading from Coke Oven Flats estimated at about 80 pounds of iron per year and 8,780 pounds of aluminum per year (Table 7). The main direct source of AMD is the discharge from the Anaconda Mine; which averages about 132 gpm, or about 213 acre feet per year. The Lewis Coulee Mine Drain discharges an average of 3 gpm, or about 4.8 acre feet per year. The indirect sources discharge about 9 gpm, or 14.5 acre feet per year from the French Coulee Main Drain, and about 2 gpm, or 3.2 acre feet per year from the Lewis Coulee Drain above Castner Park. At both of these indirect sources, the AMD discharges seep into alluvial deposits prior to discharging into the creek. Indirect discharges from the Coke Oven Flats reclamation is through seeps along Belt Creek. The discharge volumes at this site were estimated based on a range of 1 to 3 percent of the year's annual precipitation recharging the 27 acre area of reclaimed waste coal that flows into Belt Creek. Using the high estimate (3 percent of precipitation), about 1 acre foot of this water discharges into Belt Creek annually. The metal loading from all known sources of AMD discharging into Belt Creek near Belt is estimated to be 143,380 pounds of iron per year and 93,313 pounds of aluminum per year.

Mnumber	Site Name	Average Flow Rate (gpm)	Iron (Fe) Ibs/year	Aluminum (Al) lbs/year	Loading to Belt Creek
200616	Main Anaconda Mine Drain	132	94,500	59,279	Direct
214915	Lewis Coulee Mine Drain	3	8,800	5,707	Direct
200615	French Coulee Mine Drain	9	35,100	17,484	Indirect
214914	Lewis Coulee above Castner Park	2	4,900	2,063	Indirect
214917	Coke Oven Flats	0.62	80	8,780	Indirect
Subtotal fro	m Direct Loading		103300	64,986	
Subtotal from	n Indirect Loading		40,080	28,327	
Total			143,380	93,313	

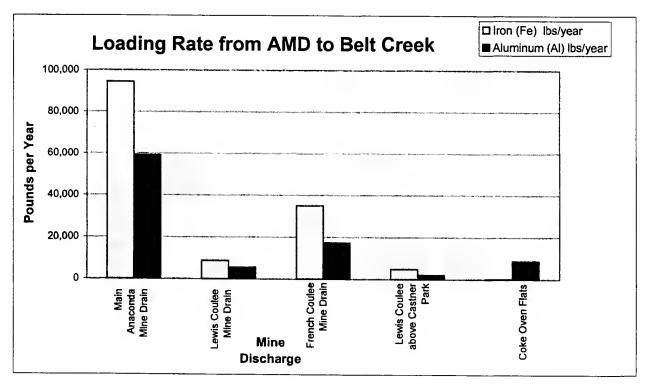


Figure 31. Loading to Belt Creek calculated from water quality samples taken from 1-2003 to 10-2004.

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Table 7. Data used for loading calculations.

Mnumber	Site Name	Percent of Precipitation Infiltrated on 27 Acres	Flow Rate on Belt Creek at Time of Sample	Iron (Fe)	Fe Pounds/Year	Aluminum (Al) mg/L	Al Pounds/Year
	MW1, A Well Located						
	Within 27 Acres of						
	Reclaimed Coal waste on						
214917	"Coke Oven Flats"	1%	•	3.210	30	373.061	2,930
		2%	*	3.210	50	373.061	5,850
		3%	•	3.210	80	373.061	8,780
	Belt Creek Al Above Swim						·
214911	Hole	•	900	0.169	700	0.568	2,230
	Belt Creek at North	an adversa					
214913	Extent of Spoil Piles	•	848	6.010	22,200	0.017	100
200616	Anaconda Mine Drain	•	132	171.000	94,500	102.846	59,280

Loading from Ground Water

Transects Across Belt Creek

The impacts of AMD discharges on Belt Creek are shown on Figure 32. This figure is based on data from eight stream transects that were conducted on October 24, 2004 along Belt Creek; from immediately above the first obvious source of AMD discharges to a point about ½ mile downstream. Field parameters pH, temperature, and specific conductance were collected as a composite sample at each transect. In addition, stream flow was measured at three of the transects. The overall flow decreased from about 2 cfs to about 1.3 cfs along this ½ mile reach of Belt Creek. Background conditions are assumed at mile point 0 (Belt Creek behind the city well). At this point, the specific conductance was less than 500 µmhos/cm, pH was about 7.8 S.U., and the water temperature was about 10.5 °C. For at least ½ mile downstream, AMD discharges were clearly evident by distinctive field parameter measurements from Belt Creek water; with lower pH and higher specific conductance values. The water temperature increased slightly from about mile point 0 to mile point 0.17. Near mile point 0.47, the water temperature had dropped by about 3 °C. This drop in temperature probably relates to a change from a losing to a gaining reach between mile points 0.17 and The AMD impacts to Belt Creek are likely to extend further downstream and consequences on aquatic life are more of a problem during periods of low flow.

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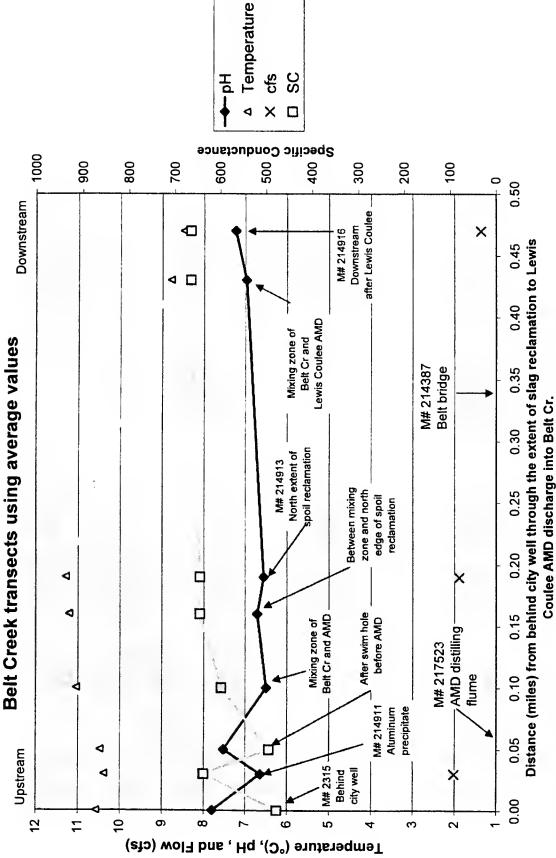


Figure 32. Field measurements collected at 8 transects along Belt Creek show AMD impacts.

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Public Well

The Belt Public water supply well #2 (GWIC ID 2315) is located on "Coke Oven Flats", adjacent to Belt Creek. It produces water from the Madison aquifer from a depth of 430 feet. In 1994, the water main line between the pump house and water tanks corroded and leaked. This public well is located only about 140 feet southeast from monitor well #1(MW1) on the reclaimed spoil area. A water-quality sample was extracted from MW1 (GWIC ID 214917). This water appears to be AMD that is very corrosive and high in trace elements. The corrosion in the main line appears to be directly caused due to action of contaminated shallow ground-water and acidic soils. To mitigate the problem, the main line was replaced with plastic pipe (DEQ, 2000). MBMG attempted to inspect the public water supply well for corrosion but we could not access the well casing with the down-hole camera. According to Ground-Water Information Center (GWIC), city well #2 is completed with an 8 inch steel casing. Public water supply rules require that the well be properly grouted. It is likely that cement grout is protecting the well casing from the corrosive shallow ground water. Our recommendation would be to periodically inspect the city well for corrosion, be aware of the corrosion potential, and to develop a plan to repair the casing in case of a leak.

REMEDIATION

Based on the data collected, it appears that recharge to the Anaconda Mine is locally derived. The key to reducing AMD discharges is to slow down, or stop, the infiltration of moisture into the abandoned mine. This recharge appears to be relatively constant as recorded in the discharges from the mine. Fluctuations in precipitation cause significant changes in discharge from the overlying Sunburst aquifer springs. However, the mine discharges remain stable. Apparently the head increase, caused by precipitation-derived recharge, is rapidly dissipated through leakage at contact springs. As a result of this localized flow system, the volume of AMD discharging from the mine could be reduced, or possibly eliminated, by changing land use in the recharge area. Figure 33 is a pie chart of land use in the recharge area towards the Anaconda Mine. Crop-fallow farming covers about 73 percent of the recharge area to the mine. This type of cropping allows significant

amounts of water to move below the root zone, recharging underlying ground-water systems. By changing the land use to permanent vegetation, more water consumption would be possible; preventing excess water from recharging the mine voids.

- 81

Land Use	Acres	%
Transportation	14.13	0.70%
Range/Pasture	486.10	24.00%
Forest	37.72	1.86%
Cropland	1,487.09	73.43%
Total	2,025.04	100.00%

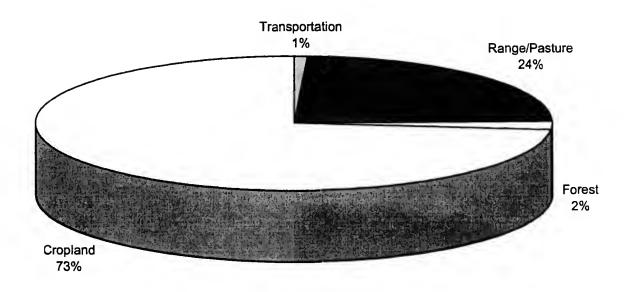


Figure 33. Land use in ground water recharge area.

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It is recommended to initially focus cropping changes to areas directly over the mine voids. The region over the mine workings are likely to be highly fractured as a result of collapse or settling of overlying rocks into the mine void. Reducing recharge in this area is likely to have a good potential to limit the movement of water into the mine voids. Land-use changes in other parts of the recharge area could be developed in the future. Long-term monitoring of the AMD discharges, and selected wells in and near the mine workings, should be conducted to document any change in the hydrogeologic system. Other possible remediation options including diverting flow from overlying aguifers to prevent water from filling the mine voids. This could be accomplished by constructing horizontal wells to drain overlying aquifers laterally, or by designing vertical wells to bypass the mine workings and recharge lower aquifer zones. Flooding the mine voids to reduce pyrite oxidation could conceivably reduce AMD, but may result in other unwanted discharges. It appears likely that the least engineered solution has the best potential for mitigating the AMD problem at Belt. Growing alfalfa or other water consumptive crops would have the potential to significantly reduce infiltration and possibly decrease or eliminate the AMD discharges.

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APPENDIX A

Inventory Data

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	Site Name	Latitude	Longitude	ownship	Range	Section	Tract	f Elevation (ff)	at depth (ft)	(mm/dd/yy)	atic water level from mp (ft)	ng water level (ft)	temperature (°C)	SC (umhos/cm)	Field pH	ORP (mV)	d test mitrate (mg/L N)	solved Oxygen (mg/L)
	vis.	-	٦	-				Ground	Total	Dete	Static	Pumping (Water	Field S	_	0	Field	Diese
2315 30562	TOWN OF BELT WELL 2 JOHNSON GERALD	47.3638 47.3052	-110.9228 -110.9785	19N 18N	06E 06E	26 21	ACAD 8AB8	3520 4280	430 35	6/5/03 9/12/02	19.18	19.34	12.2 8.9	600 512	7.06 7.42	258 278	5	5.8
30562 31948	JOHNSON GERALD NISBET HARRY	47.3052 47.4342	-110.9765 -110.9119	18N 19N	06E	21 1	8AB8 CDBC	4280 3450	35 56	9/23/03 7/25/03	20.15 23.92	20.43 28.8	9.26 10	682 872	8.89 7.28	209 -108	10	7.66
31952	GOO EDWARD	47.4305	-110.9547	19N	06E	3	CDBA	3700	12	5/30/03	1.2	20.0	12.11	783	7.78	102.3	۱ °	9.1
31957	HORST NATHAN	47.4298	-110.9655	19N	06E	4	DACD	3715	140	5/29/03	96	440.7	15	1123	7.07	14.6		l I
31957	HORST NATHAN RIMROCK VALLY RANCH INC *BUMGARNER J.	47.4298	-110.9655	19N	06E	4	DACD	3715	140	9/23/03	95.13	119.7	9.87	1] [
31959	EVERETT	47.4122	-110.9718	19N	06E	9	DCC	3730	660	5/29/03			14.8	٠		045	١.	
31965 31978	8ELT COMMUNITY CHURCH DAWSON JIM AND DELORES	47.4269 47.3913	-110.9249 -110.9691	19N	06E	11 21	ABD8 ACD8	3510 3855	250 670	7/25/03 5/28/03	218.91 427.5		12.2 13.3	834 737	8.94 7.32	315 139.5	٥	5.7
31978	DAWSON JIM AND DELORES	47.3913	-110.9691	19N	06E	21	ACD8	3855	870	11/25/03			9.71	1			ļ	
31980 31981	STEVENSON CARAL AND TERRY 8ELT SCHOOL	47.3939 47.3913	-110.9308 -110.9282	19N 19N	06E	23 23	CAD8 CDAD	3500 3500	74 300	9/11/02 5/3/04	58.78 214.81	80.5	11.3	983	7.36	195	2	
31989	FLIGINGER GARY AND MICHELE	47.3913	-110.9263	19N	06E	23	ABCC	3490	200	10/22/03	58.85	87.45	11.4	552	7.04	213	2	9.13
32015	JIM LARSON RANCH	47.3534	-110.9897	19N	06E	32	DCC8	3885	32	8/5/03			10.2	845	7.27	222		5.81
32015 32027	JIM LARSON RANCH PIMPERTON 808	47.3534 47.3566	-110.9897 -110.9003	19N 19N	06E	32 36	DCC8	3865 3560	32 44	10/23/03	30.5		10.5	630 450	7.34 7	68 148	2	5.59 6.7
32033	FULLER CHARLES H	47.3665	-110.9093	19N	06E	36	8DCD	3570	45	10/24/02	18.85		10.4	641	7.25	-53.2	ō	0.24
32040 32050	ASSELS STEVE D. SPRAGG ED	47.3654 47.3592	-110.9005 -110.9026	19N 19N	06E	36 36	DABB	3570 3620	41 47	10/24/02 9/10/02	18.65		9.7	475	7.49	225	0	9.87
32081	COLARCHIK ALBERT AND PATRICIA	47.4041	-110.8903	19N	07E	18	CCDA	3785	135	B/19/04	45.42 124		9.74	3152	7.03	-4		5.29
84937	HARRIS JOHN JR.	47.3699	-110.9902	19N	06E	29	DD	3860	200	5/16/03	77.8		9.1	815	7.21	180.1	0	5.8
84937 84937	HARRIS JOHN JR. HARRIS JOHN JR.	47.3699 47.3699	-110.9902 -110.9902	19N	06E	29 29	DD DD	3860 3860	200 200	8/19/03 10/23/03			9.9	740 730	6.86 7.1	186 38		4.24 3.3
123477	WINDER MARTIN AND BARBARA	47.3458	-110.8951	18N	07E	8	CCCB	3600	403	11/26/02	158	l	10.3	929	7.51	131.4	0	8.7
123498 125195	ARNOT DENNIS GARZA EMILIO H. AND GERALDINE	47.3632 47.446	-110.9001 -110.9238	19N 19N	06E	36	DACC	3575	53	10/24/02	13.5	21	11.5	458	7.53	15.6	0	5.3
128959	SWEENEY RANCH INC.	47.4176	-110.9238	19N	06E	2 11	CCB8	3480 3805	100 990	7/24/03 5/29/03	71.9 522.5	74.1	13.8 14.7	907 625	8.27 7.61	244 48	ľ	2.8
132172	KEASTER BRUCE AND NELSON ROGER	47.3118	-110.9975	18N	06E	17	CACA	4380	200	4/9/04	22.03		7.98	736	7.43	128	10	10.7
145604 145604	ASSELS STEVEN D. AND LINDA L. ASSELS STEVEN D. AND LINDA L.	47.3994 47.3994	-110.9304 -110.9304	19N 19N	06E	23 23	8DBA 8D8A	3500 3500	66	10/24/02 9/23/03	47.3	50.54 52.8	12.4 11.69	652 637	7.27 7.29	268	0	7.91
150504	DANKS BRENDA	47.4317	-110.9234	19N	06E	11	ABAC	3510	300	9/11/02	211.1	32.0	12.6	656	7.88	80	0.5	1 1
150504 164111	DANKS 8RENDA HOYER KEITH AND HEATHER	47.4317 47.4518	-110.9234 -110.9176	19N 20N	06E	11 35	ABAC DADA	3510	300	11/25/03	213.22		11.27	857	7.17	224 8	Ι,	8.09
164111	HOYER KEITH AND HEATHER	47.4518	-110.9178	20N	06E	35	DADA	3410 3410	90	8/21/03 9/23/03	3.7 3.71	8.48 8.9	11.3 11.57	817 597	7.06 7.38	l P	°	0.32
165475	MCMANIGLE WALLACE	47.3732	-110.9117	19N	08E	36	8ABB	3560	50	11/27/02	17.75	26.1	9.6	683	7.44	68.2	0	3.9
171338 177163	FELLOWS MIKE SPRAGG ED	47.2982 47.3592	-110.9503 -110.9026	18N 19N	06E	22 38	DCDD	4050 3620	40 490	4/8/04 9/10/02	10.85 146.03	16.2	9.15	442 463	7.46 7.46	-28 176.9	0	0.87
177183	SPRAGG ED	47.3592	-110.9026	19N	06E	36	DCDD	3620	490	8/22/03	339.8	339.8	10.4	542	7.53	151	ŏ	10.8
177163 180021	SPRAGG ED REDDISH GARY	47.3592 47.3232	-110.9028 -110.9302	19N 18N	06E	36 14	DCDD 8DBA	3620 3890	490 200	11/26/03 11/25/00	340.85 97.65		9.08 9.8	808 356	7.36 7		1	
164178	HEILIG BILL	47.36	-110.906	19N	06E	36	COAD	3640	262	11/26/03	241.1	250	9.74	813	7.25	184	6	8.22
186483 186483	SPILLER LEROY AND FAYE SPILLER LEROY AND FAYE	47.3785	-110.9269 -110.9269	19N	06E	26	D8C8	3540	24	11/26/02	17.07	17.15	10.8	639	7.32	287.4	0	7.65
186488	DAWSON RANCH	47.3785 47.3715	-110.9269	19N 19N	06E 07E	26 32	DBCB 8ADA	3540 3790	24	9/22/03 9/10/02	57.2	16.69 78.2	11.19 9.7	819 1585	7.19 7.23	245.8 81.8	١ ,	8.82
186486	DAWSON RANCH	47.3715	-110.6851	19N	07E	32	8ADA	3790	200	9/23/03	57.55	94.8	9.15	2068	7	179.4	1	0.38
188802 193220	8ELT CR *ABOVE BELT EVANS DAN AND MARY	47.3797 47.3889	-110.9285 -110.9154	19N 19N	06E	28 36	8DDA 8CBD	3560	500	8/20/03 5/13/03	281		23.2	1250	3.73	477	l	5.74
198148	REDDISH GARY	47.3232	-110.9312	18N	06E	14	8DBA	3890	800	9/10/02	1 -0.		10	367	7.79	84	0	
196148 199851	REDDISH GARY ERIC JOHNSON	47.3232 47.3099	-110.9312 -110.9593	18N	06E	14 16	8DBA CCBC	3890 4160	800 160	9/23/03 9/12/02	100.06		10.09	530 485	7.32 7.53	126.9 55.5		4.35
199851	ERIC JOHNSON	47.3099	-110.9593	18N		15	CCBC	4160	160	9/23/03	100.06	100.87	10.22	482	6.84	174.5	ľ	0.34
200058 200615	IKE HAGGESON FRENCH COULEE MINE	47.3746	-110.9127	19N		25	CCDA	3560	100	11/28/02	38.65	40.47	10.5	879	7.25		0	3.85
200815	FRENCH COULEE MINE	47.3722 47.3722	-110.93 -110.93	19N 19N		26 26	CDDB CDDB	3550 3550	i	1/29/03 3/15/03	1		7.2	5620 5030	2.7 2.68	628 650	1	4.73 3.76
200615	FRENCH COULEE MINE	47.3722	-110.93	19N	06E	26	COD8	3550	1	4/22/03			9.7	4660	2.68	659	1	3.12
200615 200615	FRENCH COULEE MINE FRENCH COULEE MINE	47.3722 47.3722	-110.93 -110.93	19N 19N		26 26	CDD8	3550 3550	1	5/28/03 6/16/03	1		12.2 12.2	4410 2820	2.82	655 653		3.54 4.42
200615	FRENCH COULEE MINE	47.3722	-110.93	19N	06E	26	CODB	3550		7/17/03							1	
200615 200615	FRENCH COULEE MINE FRENCH COULEE MINE	47.3722 47.3722	-110.93 -110.93	19N 19N		26 26	CDD8	3550 3550	1	6/19/03		1	14.3	5160 6890	2.36	639 538	1	3.15 5.97
200615	FRENCH COULEE MINE	47.3722	-110.93	19N	_	26	CDDB	3550		9/18/03 10/23/03	1	1	11.3 10.3	5600	2.41 2.73	268		3.72
200615	FRENCH COULEE MINE	47.3722	-110.93	19N		26	CDDB	3550		4/24/04	1	į	10.2	4080	2.57	573	1	6.63
200815 200815	FRENCH COULEE MINE FRENCH COULEE MINE	47.3722 47.3722	-110.93 -110.93	19N 19N		26 28	CDD8	3550 3550		8/24/64 8/12/04	1	i	12.23	4090 6230	1.75 3.99	546 626	1	8.8
200816	ANACONDA MINE DRAIN AT CULVERT	47.3788	-110.9314	19N	06E	26	8000	3540		1/30/03			9.8	2290	2.99	627	1	2.91
200618 200818	ANACONDA MINE DRAIN AT CULVERT ANACONDA MINE DRAIN AT CULVERT	47.3788 47.3788	-110.9314 -110.9314	19N 19N		26 26	8DCD 8OCD	3540 3540		3/15/03 4/22/03			10.7 7.5	2220 2260	3.01 2.89	626 639	1	2.75 2.8
200816	ANACONDA MINE DRAIN AT CULVERT	47.3788	-110.9314	19N		26	80CD	3540		5/28/03			11.3	2350	2.84	623	1	1.8
200818 200816	ANACONDA MINE DRAIN AT CULVERT ANACONDA MINE DRAIN AT CULVERT	47.3788	-110.9314	19N		26	8DCD	3540		8/18/03	1	!	9.9	1425	2.51	631	1	2.51
200616	ANACONDA MINE DRAIN AT CULVERT	47.3788 47.3788	-110.9314 -110.9314	19N 19N		28 28	8DCD	3540 3540		7/17/03 8/19/03		Ì	9.9	2355	2.58	607	1	2.1
200818	ANACONDA MINE DRAIN AT CULVERT	47.3788	-110.9314	19N	06E	28	BOCD	3540	ŀ	9/18/03	1	1	9.94	2390	2.7	623	1	1.54
200618	ANACONDA MINE DRAIN AT CULVERT ANACONDA MINE DRAIN AT CULVERT	47.3788 47.3788	-110.9314 -110.8314	19N 19N		26 29	BDCD BDCD	3540 3540		10/23/03 4/24/04	1	l	9.91 9.8	2300 2275	2.99	284 460	1	1.83 3.78
200618	ANACONDA MINE DRAIN AT CULVERT	47.3788	-110.9314	19N	06E	26	BDCD	3540		8/24/04	1		11.91	2120	2.75	495		".,"
200616 200817	ANACONDA MINE DRAIN AT CULVERT FRENCH COULEE * HIGHWAY DRAIN	47.3768 47.3722	-110.9314 -110.9265	19N 19N		26 28	8DCD CDDA	3540 3560		8/12/04 1/30/03		l	9.9 3.5	2485 810	2.68 7.79	630 82	1	1.81 11.09
		71.0122	-110.0203	LIBIA	UOE	20	CUDA	. 3300		1/20/03			. 3.3	. 010	· /./₩	. 04		

| Dissolved Oxygen (mg/L) | 9.05 | | 9.8
9.57 | 12.1
 | 10.4 | - 1 | | 840 | 0.48
 | 7.32 | | 1.01 | 1 | 12.8
 | ľ | | 7.68 | 14.3 |
 | | 9.11
8.29 | 4.29 | 3.9 | 7.5
 | 6 | 2.22 | 9.03 | 9.36 | 10.6
 | 14.9 | 1.6 | 8.65 |
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--			
Field test nitrate (mg/L N)			i
 | J | ٥١ | ő | , | 0
 | | | | |
 | | | | |
 | | | | 1 |
 | | 0 | 10 | |
 | | İ | ı |
| ORP (mV) | 50 | | 304
116 | 322
 | 372 | 171 | -143.9 | 300.0 | 163.9
 | 240 | | 255 | | 296
 | | | 286 | 288 |
 | | 210
253 | 234 | 62
510 | 82.3
106
 | 141 | 224 | 90.8 | 381 | 37.5
 | 109 | 14.8 | 230 |
| 7.78 | 8.13 | i | 7.86]
7.74 | 9.16
 | 7.3 J
9.72 | 7.32 | 7.81
7.41 | 6 86 | 7.69
 | 8.1 | | 1.00 | | 8.48
 | | | 8.15 | 9.67 |
 | | 7.4 | 7.02 | 7.42
7.79 | 8.22
7.65
 | 8.58 | 7.02 | 7.51 | 9.71 | 7.9
 | 7.82
7.68 | 6.67 | 7.85 |
| Fleid SC (umhos/cm) | 740 | | 790
860 | 620
 | 586
765 | 553 | 634 | ខ្លា។ | 446
 | 875 | | 400 | | 635
 | | | 395 | 570 |
 | | 3510
460 | 560 | | 799
676
 | 574 | 484 | 1019 | 650 | 745
 | 910
610 | 1398 | 500 |
| Water temperature | 13.6 | | 10.6
9.34 | 8.3
 | 12.18
12 | 13.2 | 9.8 | 7 A | 13.4
 | 19 | | 10.2 | | 13
 | | | 23.3 | 17
8 1 |
 | | 10.4 | 10 | 9.5
17.9 | 21.6
16
 | 18.1 | 8.83 | 8.17 | 12.8
10.8 | 10.2
 | 20.5
11.7 | 12.9 | 12.9 | |
| Pumping water level.
(ft) | | | 1 |
 | | 40.0. | 22.15 | |
 | | | | |
 | | | | |
 | | | | |
 | | | 32.4 | |
 | | | ļ |
| Static water level
from mp (ft) | | | |
 | | 131.92 | 20.6 | 206.55
3.4 | 9.28
 | | | | |
 | | | | 120 |
 | | | | |
 | | | 29.57 | |
 | 428 | 94.19 | |
| Date (mm/dd/yy) | 5/28/03 | 7/17/03 | 8/19/03
9/19/03 | 4/24/04
 | 6/24/04
8/12/04 | 9/12/02 | 9/10/02 | 8/19/03
5/18/03 | 9/11/02
 | 5/28/03 | | | 7/17/03 | 4/25/04
 | | | 8/17/03 | 4/25/04
11/27/02 | 7/17/03
 | 8/19/03 | 9/19/03
8/20/03 | 8/19/03 | | 5/27/03
5/27/03
 | 5/27/03 | 4/9/04
10/21/03 | 5/8/04 | 8/12/04
5/30/04 | 5/28/03
 | 5/28/03
5/30/03 | 5/29/03 | 9/26/03 |
| Total depth (ft) | | | |
 | ı J | | | 505
0 | 35
 | | | | 4 |
 | | | | 10.6 |
 | | | | |
 | | 27.5 | 90 | |
 | | | ı İ |
| Ground Elevation (ft) | 3560 | 3560 | 3560
3560 | 3560
 | 3560
3560 | 4060 | 3540 | 3580
4240 | 3440
 | 3840 | | i | 3840 | 3840
 | | | 3745 | 3745
3926 | 3600
 | 3600 | 3600
3520 | 3920 | 3920 | 3840
3800
 | 3910 | 4160
3580 | 4390 | 3670
3730 | 3800
 | 3790
3730 | 3720 | 3940 |
| Tract | CDDA | CDDA | CDDA | CDDA
 | CDDA | DBAC | DCBA | DACC | BBBB
 | | | | |
 | | | | ACDC |
 | | | | ABDA | DBB
DCAA
 | 80 | ACAD | CAAD | c | BDC
 | BAD | CADC | CABA |
| Section 26 | 26 | 26 | 26
26 | 26
 | 26
26 | 15 | 26 | 36
9 | 12
 | 32 | | | 32 | 32
 | | | 29 | 29
34 | 26
 | 26 | 26
26 | 29 | 29
12 | 32
29
 | 33 | 19
38 | 17 | 16
5 | 21
 | 21
5 | 4 | 14 |
| - Range | 06E | 06E | | 06E
 | | 96E | 06E | |
 | 06E | | | 0 6 E | 06E
 | | | 06E | | 06E
 | 0 6 E | | 06E | |
 | 06E | | 06E | | 06E
 | 06E
06F | 06E | 06E |
| Township | 19N | 19N | • | 19N
 | | 18N | 19N | |
 | 19N | | | 19N | 19N
 | | | 19N | | 19N
 | 19N | | 19N | 1 |
 | 19N | | 18N | | 19N
 | 19N
19N | 19N | 18N |
| -110.9265 | -110.9265 | -110.9285 | -110.9285
-110.9285 | -110.9285
 | -110.9285
-110.9285 | -110.9475 | -110.9262 | -110.9996
-110.9747 | -110.9159
 | -110.9868 | | | -110.9868 | -110.9868
 | | | -110. 9856 | -110.9856
-110.9484 | -110.927
 | -110.927 | -110.927
-110.9257 | -110.9974 | -110.9974
-110.9056 | -110.9891
-110.9829
 | -110.9706 | -111.0247
-110.9024 | -110.9951 | | -110.9731
 | -110.9887
-110.9486 | -110.9623 | -110.9298 |
| • pnppppppppppppppppppppppppppppppppppp | 47.3722 | 47.3722 | 47.3722
47.3722 | 47.3722
 | 47.3722
47.3722 | 47.3149 | 47.3774 | 47.3636
47.3241 | 47.4318
 | 47.3588 | | | 47.3586 | 47.3586
 | | | 47.3779 | 47.3779
47.3651 | 47.3757
 | 47.3757 | 47.3757
47.3812 | 47.3663 | 47.3663
47.3636 | 47.3583
47.3777
 | 47.365 | 47.2901
47.3683 | 47.3126 | 47.4131
47.4318 | 47.3956
 | 47.3994
47.413 | 47.4345 | 47.3196 |
| E W S S S S S S S S S S S S S S S S S S | RENCH COULEE * HIGHWAY DRAIN | RENCH COULEE * HIGHWAY DRAIN | | RENCH COULEE * HIGHWAY DRAIN
 | | RAY OGLE | GLEN MCCLELANO | PONDEROSA CAMPGROUND DANNY HARDINGER | GENE ERBETTA
 | PPER BOX ELDER CREEK * LARSON
RANCH | PPER BOX ELDER CREEK * LARSON | PPER BOX ELDER CREEK * LARSON | PPER BOX ELDER CREEK * LARSON | PPER BOX ELDER CREEK * LARSON
RANCH
 | WER BOX ELDER CREEK • BELOW J | OWER BOX ELDER CREEK * BELOW J | OWER BOX ELDER CREEK * BELOW J | HARRIS RANCH
JIM LARSON | BELT MT
P ON LEFT SIDE OF HIGHWAY DRAIN *
 | BELT MT | BELT MT
BELT CREEK * E OF TOWN WELL #2 | JOHN HARRIS RANCH * SPRING | JOHN HARRIS RANCH * SPRING
BELT CREEK | LEASANT VALLEY COLONY SPRING
 | PLEASANT VALLEY COLLONY S-4 | BRUCE KEASTER | MARRY EVANS | HOMESTEAD
RICK BECKER | JIM DAWSON
 | JIM DAWSON
RICK BECKER | DOUG ZIMMERMAN | GARY REDDISH LOWER SPRING |
| 200617 | 200617 | 200617 | 200617 | 200817
 | 200617 | 201066 | 201123 | 201978
202378 | 202581
 | 203450 | ŀ | | 203450 | 203450
 | 1 | | | 203451
204516 | 204710
 | 204710 | 204710
205508 | 205653 | 205653 | 209526
 | 209527 | 210402 | 210533 | 213598
214068 | 214071
 | 214078
214079 | 214093 | 214395 | |
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| 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/17/03 15.1 460 8.07 42 11.05 11.05 12.0617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/17/03 15.1 460 8.07 42 11.05 11.05 12.0617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/18/03 10.6 790 7.86 304 9.8 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/18/03 9.34 860 7.74 116 9.57 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/18/03 9.34 860 7.74 116 9.57 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/18/03 9.34 860 7.74 116 9.57 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 8.3 620 9.18 322 12.1 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 200617 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 200617 20 | 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 - 110.9285 19N 06E 26 CDDA 3560 7/17/03 10.6 790 7.86 304 9.8 | 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 9/19/03 9.34 860 7.74 116 9.57 | 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 4/24/04 12 18 586 7.3 372 12.1 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/12/04 12 18 586 7.3 372 10.4 10. | 200617 FRENCH COULEE* HIGHWAY DRAIN
 | 201066 RAY OGLE 47.3149 -110.9475 18N 06E 15 DBAC 4060 9/12/02 131.92 131 | 201123 GLEN MCCLELANO 47.3774 -110.9262 19N 06E 26 DCBA 3540 9/10/02 20.6 22.15 9.8 634 7.41 -143.9 0 201978 202378 DANNY HARDINGER 47.3241 -110.9974 18N 06E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.49 202581 GENE ERBETTA UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 5/28/03 19 675 8.1 240 7.32 203450 UPPER BOX ELDER CREEK * LARSON RANCH 47.3596 -110.9868 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 7/17/0 | 202378 DANNY HARDINGER 47.3241 -110.9747 18N 06E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.96 300.9 2 6.49 202581 UPPER BOX ELDER CREEK *LARSON RANCH 47.3596 -110.9869 19N 06E 32 3840 5/28/03 19 875 8.1 240 7.32 203450 RANCH 47.3596 -110.9869 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3596 -110.9869 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3596 -110.9869 19N 06E 32 3840 7/17/03 | 202581 | 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 5/28/03 19 875 8.1 240 7.32 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 203450 RANCH 47.3586 -110.9888 19N 06E 32 3840 7/17/03
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 | 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 10/23/03 9.3 660 7.71 68 6.95 UPPER BOX ELDER CREEK * LARSON | 203450 | 203450 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J LOWER BOX ELDER CREEK | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J LO | 203450
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RANCH R | 20450 PARCH 47.586 -110.686 19N 06E 32 3840 91.903 8.7 620 7.56 245 9.13 | 20450 FANCH 47.358 -110.9888 19N 08E 32 3840 102.303 9.3 600 7.7 60 0.85 | 200450 DPFR BOX ELDER CREEK * LARSON 47.3586 -110.9889 19N 06E 32 3840 102303 0.3 660 7.7 66 0.85 | 2014-00 | 200450 UPPER SOK ELDER CREEX* LASSON 47.3565 -110.8685 191. 056: 32 3840 10.2383 8.7 52.0 7.55 24.5 6.5
 6.5 | Depth Park | 20450 | 20450 |
| 200617 | 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/1903 10.6 790 7.86 304 9.8 9.57 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/1903 9/1903 9.34 860 7.74 116 9.57 200617 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 8/1903 9/ | 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 9/19/03 9.34 860 7.74 116 9.57 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 4/24/04 8.3 620 8.16 322 12.1 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 6/24/04 12.18 586 7.3 372 10.4 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 10.4 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 8/12/04 12.18 586 7.3 372 10.4 201666 RAY OGLE 47.3149 -110.9475 18N 06E 15 DBAC 4080 9/12/02 131.92 13.2 553 7.32 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 200817 FRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3560 4/24/04 12 16 586 7.3 372 10.4 | 200617 FRENCH COULEE * HIGHWAY DRAIN
 | 201066 RAY OGLE 47.3149 -110.9475 18N 06E 15 DBAC 4060 9/12/02 131.92 | 201123 GLEN MCCLELANO 47.3774 -110.9262 19N 06E 26 DCBA 3540 201078 PONDEROSA CAMPGROUND 47.3636 -110.8996 19N 06E 36 DACC 3580 505 8/19/03 208.55 202378 DANNY HARDINGER 47.3241 -110.9747 18N 06E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.49 202581 GENE ERBETTA UPPER BOX ELDER CREEK * LARSON RANCH UP | 202378 DANNY HARDINGER GENE ERBETTA 47.3241 -110.9747 49.06E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.49 CDCA 4240 0 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.49 CDCA 4240 0 0 5/18/03 3.4 446 7.69 163.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 202581 GENE ERBETTA UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.83 | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH
UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANC | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 15.6 620 7.85 253 7.83 | UPPER 90X ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.83 | UPPER BOX ELDER CREEK * LARSON 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 | | 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 10/23/03 9.3 660 7.71 66 6.95
 | 203450 RANCH 47.3586 -110.9866 19N 06E 32 3840 10/23/03 9.3 660 7.71 66 6.95 | 203450 RANCH 47.3586 -110.9898 19N 06E 32 3840 10/23/03 9.3 660 7.71 68 0.95 UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J 47.3586 -110.9868 19N 06E 32 3840 4/25/04 13 635 8.48 296 12.8 | 203450 | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS
RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER | 203450 RANCH CPER SO/LEIDER CREEK* LARSON RANCH CAPER SO/LEIDER CREEK* LARSON RANCH CAPER SO/LEIDER CREEK* SELOWJ CAPER SO/LEIDER CREEK* SELOW | 20450 PARCH CAPER SOVELDER CREEK * LARSON RANCH A7.3566 - 110.9666 19N 06E 32 3840 4.2504 13 635 8.48 296 12.8
 | 203450 FANCH 47.586 -110.9886 19N .05E 32 3840 42504 13 635 8.46 266 12.8 | 20450 FANCH 47.3566 -110.0866 19N 06E 22 3840 42504 13 635 8.48 296 12.8 | 200450 | 20440 | 20450
 | 20450 | 20456 |
| 200617 | 200617 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 9/19/03 9.34 860 7.74 116 9.57 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 47.24/04 12.18 586 7.3 372 10.4 1 | 200617 FRENCH COULEE * HIGHWAY DRAIN RAY OGLE
RAY OGLE RA | 201066 RAY OGLE 47.3149 -110.9475 18N 06E 15 DBAC 4060 9/12/02 131.92 131.92 131.92 131.92 146 417 7.81 147 0 14 | 201123 GLEN MCCLELANO 47.3774 -110.9262 19N 06E 26 DCBA 3540 201978 PONDEROSA CAMPGROUND 47.3636 -110.9996 19N 06E 36 DACC 3580 505 8/19/03 206.55 202378 DANNY HARDINGER 47.3241 -110.9747 19N 06E 12 B888 3440 35 9/11/02 9.28 13.4 446 7.69 193.9 0 22 8.49 202450 PORTOR RANCH UPPER BOX ELDER CREEK * LARSON R | 202378 DANNY HARDINGER GENE TRACTIVAL AT 3241 -110.9747 18N 06E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.96 300.9 2 6.49 19N 06E 12 8888 3440 35 9/11/02 9.28 13.4 446 7.69 163.9 0 19N 06E 32 3840 5/28/03 19N 06E 32 3840 5/28/03 19N 06E 32 3840 5/28/03 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 19PER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 15.6 620 7.85 253 7.83 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.83 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 | 202581 GENE ERBETTA UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARS | 203450 RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX
ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER CREEK *LARSON RANCH UPPER BOX ELDER C | 203450 UPPER BOX ELDER CREEK * LARSON RANCH 47.3596 -110.9969 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 UPPER BOX ELDER CREEK * LARSON RANCH 47.3596 -110.9869 19N 06E 32 3840 7/17/03 18.2 400 7.89 299 7.81 UPPER BOX ELDER CREEK * LARSON RANCH 47.3596 -110.9869 19N 06E 32 3840 7/17/03 15.6 620 7.85 253 7.83 UPPER BOX ELDER CREEK * LARSON RANCH 47.3596 -110.9869 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.83 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9869 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 | UPPER 8OX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03 15.6 620 7.85 253 7.93 190 06E 32 3840 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 190 06E 32 19N 06E 32 3840 19N 06E 32 3840 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 19N 06E 32 3840 | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 19N 06E 32 3840 8/19/03 8.7 620 7.58 245 9.13 | UPPER BOX ELDER CREEK * LARSON 203450 RANCH 47.3586 -110.9868 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 |
 | UPPER BOX ELDER CREEK * LARSON | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 4/25/04 13 635 8.48 296 12.8 LOWER BOX ELDER CREEK * BELOW J | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 4/25/04 13 635 8.48 296 12.8 LOWER BOX ELDER CREEK * BELOW J 47.3779 -110.9858 19N 06E 29 3745 5/28/03 24.5 680 8.2 236 5.73 LOWER BOX ELDER CREEK * BELOW J | UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BEL | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 4/25/04 13 635 8.48 296 12.8
 | UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BEL | 203450 UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK | 203450 UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK | Description | Depart of State Color Creek Carbon Color Creek Carbon | 20450 129ER 80X ELDER GREEK* BELOW J 47.3776 -110.9856 19N 05E 22 3745 572803 24.5 680 9.2 236 5.73 233 395 8.15 288 7.68 204516
 204516 204 | UPRER BOX ELDER CREEK* LARSON 47.3665 -110.0666 19N 06E 32 3840 47.2504 13 635 8.48 296 12 20451 10WER DRIVER DRIV | Difference Dif | Dispersion of the Control of the C | UPPER BOX ELDER CREEK * LARGON A7.3666 - 110 0866 19N 06E 22 3840 42504 13 635 8.48 206 12.8 | UPPER BOX ELDER CREEK* LASON 47.3875 -110 8969 19N 08E 20 3745 52803 24.5 600 8.2 236 5.73 100 | UPPER BOX ELDER CREEK* LAKSON 47.3875 -110.9865 18N 05E 20 3745 52865 24.5 680 82 236 57.3 20.5451
20.5451 | 20450 Corresponding Reach A7,000 110,000 110,000 110,000 120 34,000 120,000 |
| PRENCH COLLEE * HIGHWAY DRAIN 47.3722 -110.9285 19N 06E 26 CDDA 3560 871703 15.6 740 8.13 50 6.05 | PRENCH COULEE* + HIGHWAY DRAIN 47.3722 - 110.9265 19N 06E 26 CODA 3560 71/703 10.6 760 7.6 8 304 9.8 8 200917 FRENCH COULEE* + HIGHWAY DRAIN 47.3722 - 110.9265 19N 06E 26 CODA 3560 91/903 934 860 7.74 116 9.57 110 200917 1200917 | PRINCH COULEE * HIGHWAY DRAIN 47 3722 - 110,8265 19N 06E 26 CDDA 3560 9/19/03 9.34 860 7.74 116 9.57 | PRENCH COULEE * HIGHWAY DRAIN 200817 FRENCH COULE * HIGHWAY DRAIN 20 | 2006617 | 201066 RAY OGLE 47,3449 -110 475 18N 06E 15 DBAC 470 06E 15 DBAC 470 06E 15 DBAC 470 06E 470 | Cart McCleland
Cart McCleland Cart | DANNY HARDINGER 47.3241 -110.9747 18N DEE 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.49 47.4318 -110.9159 19N DEE 12 8888 3440 35 9/11/02 9.28 13.4 446 7.68 163.9 0 0 0 0 0 0 0 0 0 | 202581 GENE ERBETTA 47.4318 -110.9159 19N 06E 12 8888 3440 35 9/11/02 9.28 13.4 446 7.69 163.9 0 10.9056 10. | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 6/17/03 18.2 400 7.89 299 7.81 | 203450 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 7/17/03
 | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.83 203450 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 19N 06E 32 19N 06E 32 3840 10/23/03 9.3 660 7.71 68 6.95 19N 06E 32 19N 06E 32 3840 4/25/04 13 635 8.48 296 12.8 19N 06E 32 19N 06E 3 | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH HARRIS RAN | LOWER BOX ELDER CREEK * BELOW J 203451 | LOWER BOX ELDER CREEK * BELOW J 203451 HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 | 1
 | | SEEP ON LEFT SIDE OF HIGHWAY DRAIN | SEEP ON LEFT SIDE OF HIGHWAY DRAIN * 204710 8ELT MT 47.3757 -110.927 19N 06E 26 3600 7/17/03 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT 47.3757 -110.927 19N 06E 26 3600 7/17/03 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT 47.3757 -110.927 19N
06E 26 3600 8/19/03 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 8/19/03 204710 BELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 10.4 3510 7.4 210 9.11 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 8/19/03 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 8/19/03 204710 20508 9ELT CREEK* E OF TOWN WELL #2 47.3812 -110.927 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SELT MT SEEP ON LEFT SIDE OF SEARCH | SEEP ON LETT SIDE OF HIGHWAY DRAIN* 8 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN* 9 BLT MT 9 BLT MT 9 BLT CREEK* EOF TOWN WELL #2 47,3812 - 110,927; 19N 06E 26 3600 8/1903 10.0 50 7.0 234 4.20 205633 JOHN HARRIS RANCH* SPRING 47,383 - 110,9714 19N 06E 29 3820 8/1903 10.5 50 7.0 244 4.20 205639 JOHN HARRIS RANCH* SPRING 47,383 - 110,9714 19N 06E 29 3820 8/1903 10.5 50 7.0 244 4.20 205639 BLT CREEK* 47,3753 - 110,9183 19N 06E 26 DDAA 8/27/03 115,914 371 7.2 512 205639 BLT CREEK* 47,3753 - 110,9183 19N 06E 26 DDAA 8/27/03 115,914 371 7.2 512 205639 BONNIE ZANTO 47,4478 - 110,624 2N 06E 35 DCAB 8/27/03 10,203 10,203 19,2 372 7.46 513 20,384 10,223 10,223 19N 06E 10,223 19N 06E 10,223 19N 06E 27 ABDA 10,223 19N 06E 28 ABDA 10,223 19N 06E 29 AGBB 3770 7.2 52709 30.59 10 7.2 18,58 10,39 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 8 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 8 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 9 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 9 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 9 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 9 BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN' 9 BELT GREEK' 47.7357 -110.927 19N 06E 26 3600 8/1903 10 50 7.4 210 9.11 205080 3 JOHN HARRIS RANCH' SPRING 47.3812 -110.9271 19N 06E 25 3520 8/2003 20.9 400 7.46 253 8.28 206533 JOHN HARRIS RANCH' SPRING 47.3803 -110.9974 19N 06E 28 3820 8/2003 0.5 560 7.02 234 4.29 205653 BELT CREEK 47.3803 -110.9054 19N 06E 28 3820 8/2003 0.5 560 7.02 234 4.29 205658 BELT CREEK 47.3806 -110.0253 19N 06E 28 DRAIN 67.03 10.0056 19N 06E 20 DRAIN
67.03 10.0056 19N 06E 20 DRAIN 67.03 10.0056 19N 06E 20 DRAIN 67.03 10.0056 19N 06E 20 DRAIN | SEEP ONLET SIDE OF HIGHWAY DRAIN* 8ELT INT SEEP ONLET SIDE OF HIGHWAY DRAIN* 9ELT WIT 9ELT W | SEEP ON LETE TIME OF HIGHWAY DRAIN* 47.3757 -110.927 19N OSE 26 3600 7/17/703 0 0 0 0 0 0 0 0 0 | SEEP ON LETT SIDE OF HIGHWAY DRAIN* SEEP ON LETT SIDE OF HIGHWAY D | SEEP ON LEFT SIDE OF HIGHWAY DRAIN | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT WITH SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 204710 20 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* A 7.3757 -110.027 19N 06E 26 3600 8000 819003 JOHN HARRIS RANCH* SPRING A 7.3603 -110.9671 19N 06E 26 3020 8020 10.000 800 7.02 224 4.29 3000 8000 8000 8000 10 500 7.02 224 4.29 3000 8000 8000 8000 10 500 7.02 224 4.29 3000 8000 8000 8000 8000 10 500 7.02 224 4.29 3000 8000 8000 8000 8000 8000 10 500 7.02 224 4.29 300 8000 8000 8000 8000 8000 8000 8000
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| | PRENCH COULEE* HIGHWAY DRAIN 47.3722 -110.9265 19N 06E 26 CDDA 3660 7/17/03 10 780 7.68 304 9.8 9.8 7.74 110.9265 19N 06E 26 CDDA 3660 9/19/03 9.34 800 7.74 110 9.57 110.9265 19N 06E 26 CDDA 3660 8/19/03 9.34 800 7.74 110 9.57 110.9265 19N 06E 26 CDDA 3660 8/19/03 9.34 800 7.74 110 9.57 110.9265 19N 06E 26 CDDA 3660 8/19/03 9.34 800 7.74 110 9.57 110.9265 19N 06E 26 CDDA 3660 8/19/03 9.34 800 7.74 110 9.57 110.9265 19N 06E 26 CDDA 3660 8/19/03 110.9265 19N 06E 10.9265 | PRENCH COLLEE* HIGHWAY DRAIN 47.3722 -110.9285 19N 08E 26 CODA 3560 9/19/03 8.3 8.00 8.16 32.2 12.1 | PRENCH COULEE * HIGHWAY DRAIN 47.3722 -110.8265 19N 06E 26 CDDA 3560 62.40C4 12 18 568 7.3 372 10.4 | 200617 FRENCH COULEE* HIGHWAY DRAIN 47.3722 -110.9265 18N 06E 26 CDDA 5560 81.204 12 765 9.72 10.4 | 201066
 | 2011/32 GLEN MCCLELANO 47,3774 -110,9262 19N 06E 26 DCBA 2540 0 0 0 0 0 0 0 0 0 | DANNY HARDINGER 47,3241 110,9747 18N 08E 9 CDCA 4240 0 5/18/03 3.4 7.6 801 6.86 300.9 2 6.48 47,4318 110,9159 19N 06E 12 8888 3440 35 9/11/02 9.28 13.4 446 7.69 163.9 0 0 0 0 0 0 0 0 0 | 202581 GENE ERBETTA 47.4316 -110.9159 19N 06E 12 8886 3440 35 9/11/02 9.28 13.4 446 7.69 163.9 0 0 0 0 0 0 0 0 0 | 203450 RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER C | UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J
HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER | Description | UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9868 19N 06E 32 3840 8/19/03 15.6 620 7.85 253 7.93 | 203450 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J H | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH JIM LARSON 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 203451 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 8.1 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 9/24/03 12.65 11.31 526 7.46 233.6 8.57
 | LOWER BOX ELDER CREEK * BELOW J 203451 HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 8.1 204516 JIM LARSON 47.3651 -110.9484 19N 08E 34 ACDC 3926 19.6 9/24/03 12.65 11.31 526 7.46 233.6 8.57 | 204516 | 204516 JIM LARSON 47.3651 -110.9484 19N 08E 34 ACDC 3926 19.6 9/24/03 12.65 11.31 526 7.46 233.6 8.57 | |
 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN • 47.3757 -110.927 19N 06E 26 3600 8/19/03 8/19/03 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 10.4 3510 7.4 210 9.11 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 0 | SEEP ON LEFT SIDE OF HIGHWAY DRAIN SEEP ON LEFT SIDE OF HIGHWAY DRAIN SEEP ON LEFT SIDE OF HIGHWAY DRAIN SEEP ON LEFT SIDE OF HIGHWAY DRAIN 47.3757 -110.927 19N 06E 26 3600 8/19/03 10.4 3510 7.4 210 9.11
 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8 BELT ANT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 9/19/03 10 50 7.4 210 9.11 205508 BELT CREEK * E OF TOWN WELL #2 47.3852 -110.927 19N 06E 26 3520 6/20/03 20.9 460 7.48 253 6.28 205553 JOHN HARRIS RANCH * SPRING 47.3653 -110.9974 19N 06E 29 3920 10/23/03 9.55 560 7.42 62 3.9 205633 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.55 560 7.42 62 3.9 205636 BELT CREEK 47.3656 -110.9056 19N 06E 26 DBDA 6/27/03 119.9 297 7.79 510 205836 BELT CREEK 47.3763 -110.925 19N 06E 26 DBDA 6/27/03 119.9 297 7.79 510 205836 BELT CREEK 47.3656 -110.925 19N 06E 26 DBDA 6/27/03 19.9 297 7.79 510 205836 BELT CREEK 47.3663 -110.925 19N 06E 26 DBDA 6/27/03 19.9 297 7.79 510 205836 BENT CREEK 47.3663 -110.925 19N 06E 26 DBDA 6/27/03 19.9 297 7.79 510 206536 BENT CREEK 47.3898 -110.925 19N 06E 26 DBDA 6/27/03 19.9 297 7.79 510 206536 BONNIE ZANTO 47.478 -110.924 20N 06E 26 DBDA 6/27/03 19.9 2 372 7.48 513 206356 FRANK BALITOR 47.4786 -110.923 19N 06E 26 DBCB 480 20 28.2003 97.2 13.1 7.99 6.82 190 0 14.6 206546 FRANK BALITOR 47.4789 -110.923 19N 06E 29 ACBB 3770 72 5/27/03 30.59 3 10 7.21 85.8 190 0 14.6 207628 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 3 10 7.21 85.8 190 0.52 2076458 BURGE EXPLORATION ACM WELL 47.3767 -110.9974 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9974 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9966 19N 06E 30 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9966 19N 06E 30 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9961 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9961 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9961 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9961 19N 06E 29 DAAA 3860 186 6/2003 125.4 207662 BURGE EXPLORATION AC | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9 ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9 ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9 ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9 ELT MT 9 ELT GREEK # 73 517 - 110.927 19N 08E 25 3600 919/03 20.9 450 7.4 210 9.11 205509 205533 | SEEP ON LETT SIDE OF HIGHWAY DRAIN ' 9ELT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN ' 9ELT MT SEEP ON LETT SIDE OF HIGHWAY DRAIN ' 9ELT CREEK 'E OF TOWN WELL #2 207503 9ELT CREEK 'E OF TOWN WELL #2 47.3812 - 110.9277 19N 06E 26 3600 8/1903 10.4 3510 7.4 210 9.11 2055080 9ELT CREEK 'E OF TOWN WELL #2 205653 JOHN HARRIS RANCH 'S PRING 47.3653 - 110.9974 19N 06E 26 32 205653 JOHN HARRIS RANCH 'S PRING 47.3653 - 110.9974 19N 06E 29 3.20 205653 BELT CREEK (47.3653 - 110.9974 19N 06E 29 3.20 205636 BELT CREEK (47.365 - 110.9056 18N 06E 12 ABDA 86.2703 11.9 297 7.79 510 205638 BELT CREEK (47.3763 - 110.9165 18N 06E 26 DDDA 86.2703 11.9 297 7.79 510 205639 BONNIE ZANTO 47.476 - 110.824 20N 06E 35 DCDB 82.703 19.2 272 7.46 513 206358 BONNIE ZANTO 47.478 - 110.824 19N 06E 27 DBAA 86.2703 19.2 372 7.46 513 207528 BONNIE ZANTO 47.478 - 110.824 19N 06E 11 ABDA 207269 19N 06E 11 ABDA 207269 19N 06E 11 ABDA 207269 19N 06E 11 ABDA 207269 19N 06E 11 ABDA 207269 19N 06E 11 ABDA 207269 19N 06E 29 ACBB 3770 72 56.2703 3.9.56 10 7.21 85.8 10.000 19N 06E 29 ACBB 3770 72 56.2703 3.9.56 10 7.21 85.8 10.000 19N 06E 29 ACBB 3770 72 56.200 3411 19.6 80 92 7.02 75.5 13.0 96 207269 19N 06E 29 ACBB 3770 72 56.200 3411 19N 06E 29 ACBB 3770 72 56.200 3411 19N 06E 29 ACBB 3770 72 56.200 3411 19N 06E 29 ACBB 3770 72 56.200 3411 19N 06E 29 ACBB 3770 72 56.200 3411 19N 06E 20 ACB | SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 81.903 10 47.3757 -110.927 19N 06E 26 3600 91.903 10 560 7.02 234 4.29 20.9533 20.9533 20.9534 20.9535 20.9534 20.9535 20.9534 20.9535 20.9534 20.9535 20.9535 20.9534 20.9535 20.95 | SEP ON LET SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N OEE 26 3600 819003 10.4 3510 7.4 210 9.11
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 | 201666 RAY OGLE A73149 -110-0475 18N 06E 15 DBAC 060 1 91/202 131-92 132-93 37.3 7.3 171 0 0 0 0 0 0 0 0 0 | 201232 GLEN MCCLELANO 47.3774 -110.6262 19N 06E 26 DCA 3540 57.00 20.576 20.2776 DANNY HARDINGER 47.3241 -110.6747 19N 06E 12 88.86 34.00 35 67.1002 20.8 22.15 8.8 63.4 7.4 -143.8 0 0 20.5776 20.2776 DANNY HARDINGER 47.3241 -110.6747 19N 06E 12 88.86 34.00 35 67.1003 34.4 44.6 7.68 103.9 0 0 0 0 0 0 0 0 0 | DANNY HARDINGER GENE ERBETTA 202581 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * | CENE ERBETTA 17.09159 19N 06E 12 8886 3440 35 911/02 2.28 13.4 446 7.69 163.9 0 19 190 1 | 203450
 | UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER BOX | 203450 | UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER | UPPER BOX ELDER CREEK * LARSON A7.3586 -110.9868 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BELOW J HARRIS RANCH LOWER BELOW J HARRIS RANCH LOWER J HARRIS RANCH LOWER BELOW J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOWER J HARRIS RANCH LOW J HARRIS RANCH LOWER J HARR | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 9.1 10.31 528 7.46 233.6 9.57 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 9/24/03 12.65 279.53 10 570 8.67 288 14.3 204516 SEEP ON LEFT SIDE OF HIGHWAY DRAIN * BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN * GELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN * GELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN * BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN * BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN * BELT MT 47.3757 -110.927 19N 06E 26 3600 8/19/03
10.4 3510 7.4 210 9.11 20550 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3776 -110.9856 19N 06E 29 3745 4725/04 110.9856 19N 06E 29 3745 3 | 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 9.1 11.31 528 7.46 233.6 8.57 204687 OSTERMAN OARIN AND NOEL 5EEP ON LEFT SIDE OF HIGHWAY DRAIN* 6ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT 47.3757 -110.927 19N 06E 26 3600 8/19/03 8/19/03 10.4 3510 7.4 210 9.11 205563 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 9.5 560 7.42 62 3.9 | 204516 JIM LARSON OSTERMAN OARIN AND NOEL SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* AT 3.757 -110.927 19N 06E 26 3600 8/19/03 SEET CREEK* E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 SOSSOS JUDIN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 | 204710 9ELT MT | 205508 BELT CREEK * E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9
 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 | | | 208358 BONNIE ZANTO 47.4478 -110.924 20N 05E 35 DCDB 3490 202 8/2/03 97.2 13.1 789 6.82 190 0 14.6 208360 FRANK BALITOR 47.3788 -110.9228 19N 06E 26 DBCB 3530 11/27/02 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207256 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207256 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 10.7 137 7.55 137 1.5 8.03 10.7 137 7.55 137 1.5 8.03 10.7 137 7.55 137 1.5 8.03 10.7 137 7.55 137 1.5 8.03 10.7 137 7.55 137 1.5 8.03 10.7 137 7.99 1.8 0 0.52 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 | 206358 BONNIE ZANTO
 | 208358 BONNIE ZANTO | 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 206340 FRANK BALITOR 47.3788 -110.9268 19N 06E 26 DBCB 3530 11/27/02 8/20/20844 HOYER JERRY T. 47.4296 -110.9228 19N 06E 21 1A ABDD 265 8/22/03 30.59 10 7.21 85.8 10 7.21 85.8 10 7.21 85.8 11/27/02 8/20/2084 PLEASENT VALLEY COLONY 47.3784 -110.8834 19N 06E 29 ACBB 3770 72 8/21/03 30.59 10 7.21 85.8 10 7.21 85.8 10 7.21 85.8 11/27/02 8/20/2084 18VINE 47.3597 -110.9864 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 19N 06E 29 ACBB 3770 125/4 11.5 8 11.1 19.8 992 7.02 75.5 3.9 10.2 125/4 19N 06E 29 ACBB 3806 186 8/2003 125/4 11.1 19.8 992 7.02 75.5 3.9 10.2 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N 06E 29 ACBB 3770 125/4 19N | 208358 BONNIE ZANTO 47,478 -110,924 20N 06E 35 DCB 3490 202 8/2/03 97.2 13.1 799 6.82 190 0 14.5 | 200586 BONNIE ZANTO
 | 209389 BONNIE ZANTO 47.478 - 110.024 200. 06E 35 DCD6 3490 202 82003 97.2 13.1 789 0.02 190 0 14.6 PEASENT VALEY COLONY 47.4786 - 110.0221 190. 06E 11 ABDD 207559 PLEASENT VALEY COLONY 47.3784 - 110.0824 190. 06E 11 ABDD 207559 PLEASENT VALEY COLONY 47.3784 - 110.0824 190. 06E 29 AC88 3770 72 527703 30.59 10 7.7 7.2 185.8 10.0725 190. 06E 207559 PLEASENT VALEY COLONY 47.3784 - 110.0834 190. 06E 11 ABDD 207559 PLEASENT VALEY COLONY 47.3784 - 110.0834 190. 06E 19 CCC 4 4150 60 47904 147.72 7.9 457 7.9 457 7.9 5 180 0.52 1 | 200389 BONNIE ZANTO | 2005896 BONNIE ZANTO |
| 200617 FRENCH COULE HIGHWAY DRAIN 47,3722 -110,8265 110,826 28 CDDA 3560 52,8203 13,6 kg 57 42 110,6 | 200617 FRENCH COULLE F HIGHWAY DRAIN 47.3722 -110 6265 FRENCH COULLE F HIGHWAY DRAIN 47.3724 -110 6265 FRENCH COULLE F HIGHWAY DRAIN 47.3726 -110 6265 FRENCH COULLE F HIGHWAY DRAIN 47.37 | 200817 FRENCH-COULEE* HIGHWAY DRAIN 47.3722 110.9265 19N 06E 26 CDDA 3560 42404 8.3 800 7.74 116 9.57 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47.372 110.9265 19N 06E 26 CDDA 3560 47.4044 8.3 620 9.16 322 12 12 12 12 12 12 12 | 200877 FRENCH COULEE * HIGHWAY DRAIN 47,3727 110,825 19N 05E 2 20 CDDA 3500 81,200 13,92 13,92 13,92 533 7,32 71 0 0 0 0 0 0 0 0 0 | 201666 RAY OCLE 47 3146 -110 475 18N 06E 15 0BAC 4060 1 91/20/2 131.92
131.92 13 | 201123 GLEN MCCLELANO 47.374 -110.9262 10N 06E 26 DACC 256 0.906 27.705 | 2023/8 DANNY HARDINGER GENE ETRA 47.3241 -110.9747 19N 06E 2 8888 3440 35 91102 8.28 13.4 446 7.69 193.9 0 0 0 0 0 0 0 0 0 | 202458 GENE ERBETTA UPPER BOX ELDER CREEK *LASSON RANCH UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J HARRIS RANCH UPPER BOX ELDER CREEK *RELOW J UPPER BOX ELD | Part | Dept | Depart of Care Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Larson Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder Creek * Below J Harris Ranch Lower Box Elder
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300 300 | 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 9.1 11.31 526 7.46 233.6 0.5TERMAN DARIN AND NOEL 47.3706 -110.9095 19N 06E 36 BACD 3670 381 11/26/02 276.85 279.53 10 5.5T 2 | 204516 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 8/19/03 10.4 3510 7.4 210 9.11 205508 BELT CREEK 47.3863 -110.9974 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205653 BELT CREEK 47.3353 -110.9183 19N 06E 12 ABDA 8/27/03 12.9 297 7.79 510 205638 BELT CREEK 47.3753 -110.9183 19N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 | 205508 BELT CREEK & CF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20/03 20.9 450 7.48 253 8.28 205653 JOHN HARRIS RANCH & SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH & SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205638 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512
 | 205836 BELT CREEK 47.3636 -110.8056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 | 206360 | 206360 | PRANK BALITOR 47.3788 -110.9288 19N 06E 26 D8CB 3530 1127/02 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527203 30.59 10 7.21 85.8 8.03 10.7 10.755
10.7 10.755 | 206364 PRANK BALITOR 47.3788 -110.9288 19N 06E 20 BOCB 3530 522/03 175.55 8/22/03 | 206540 FRANK BALTOR 47.3788 -110.0289 19N 06E 26 BCCB 3530 175.55 | 206540 FRANK BALITOR 47 3788 -110,8283 19N 06E 29 ACB 3530 10Z702 265 8/22/03 175.55 17.27 27.28 | 205808 FRANK BALTOR | 205500 FRANK BALITOR 47.3788 -110.9288 19N 06E 25 D8CB 5330 110.7702 20554 HOYER JERRY T. 47.266 -110.0223 19N 06E 11 ABDD 255 87203 175.55 U 7.21 8.58 10.0258 19N 06E 29 ACBB 3770 72 87203 175.55 U 7.21 8.58 10.0258 19N 06E 29 ACBB 3770 72 87203 18N 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.0834 19N 06E 29 ACBB 3770 72 87203 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 NELSON ROGER 47.292 -111.0247 18N 06E 19 CCCA 4150 80 47904 147.2 17.99 487 7.99 -18 0 0.52 207649 BRUCE KEASTER 47.4033 -110.8775 19N 06E 16 CCB 3835 30 52803 411 18.8 892 7.02 75.5 3.9 80.6 10 10 10.00
10.00 10 | 205900 FRANK BALITOR 47.3788 -110.8268 19N 06E 1 ABDO 265 82.203 175.55 |
| 200617 FERNCH COULEE* HIGHWAY PRAIN 47.3722 - 110.9265 10.0 06E 26 CDDA 3560 0.17703 1.1 0 0.1 0 0.0 0 0 | 200617 FRENCH COULE F HIGHWAY DRAIN 47.3722 -110 6265 510 606 26 CDDA 3650 51903 -10.6 70 7.66 304 6.8 | 200817 FRENCH COULEE F INIGHMAY DRAIN 47.3722 -110.8285 SNO 62 20 CDDA 3.560 -24.044 -10.8285 SNO 62 20 CDDA 3.560 -24.044 -12.66 580 7.3 372 -12.07 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47.372 110.9265 18N 06E 20 CDDA 3560 67.2444 8.3 620 816 322 12 1 1 1 1 1 1 1 1 | 200507 FRENCH COULEE* HIGHMAY DRAIN 47,272 110,925 19N 06E 20 CDDA 3560 91,200 131,20
131,20 1 | 201666 RAY OGLE 47,3469 -110,9415 150 06E 15 08AC 06B 1 08C 050 08C 080 1 08C 15 08AC 06B 1 08C 15 08AC 080 1 08C 10 | 201222 GLEN MCCLELANO 47 37374 -110 2622 19N 06E 26 COCA 240 0 0 0 0 0 0 0 0 0 0 | 202378 DANNY HARDINGER 47.3241 -110.9474 18N 06E 9 COCA 4240 0 5.190.3 3.4 7.6 801 6.68 800.0 2 8.49 | 202450 GENE ERBETTA UPPER ROX ELIDER CREEK *LARSON RANCH LPPER ROX ELIDER CREEK *LERSON RANCH LPPER ROX ELIDER CREEK *BELOW J LPPER ROX ELID | 203450 RANCH UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK SELOW J HARRIS RANCH LOWER BOX ELDER CREEK' BELOW J HARRIS RANCH LOWER BOX ELDER CREEK' | UPPER BOX ELDER CREEK * LARSON 47.3566 110.9866 19N 06E 32 3840 617/03 18.2 400 7.89 268 7.81 | Dept | 203450 203450 203450 203450 203450 203450 203450 203450 203450 203450 203450 203450 203450 203450
203450 203451 20 | 203450 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER BOX E | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH RATE BLOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH RATE BLOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH RATE BLOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH RATE BLOW J RATE BLOW J HARRIS RANCH RATE BLOW J HARRIS RANCH RATE BLOW J HARRIS RANCH RATE BLOW J HARRIS RANCH RATE BLOW J HARRIS RANCH | LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH LOWER ROX ELDER CREEK* BELOW J HARRIS RANCH JIM LARSON JIM LARSON 47.3779 -110.9856 19N 06E 29 3745 19N 06E 26 3600 3747 381 11/25/02 278.85 279.85 10 279.83 10 208.15 208.17 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 9.67 288 14.3 204516 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 19.6 9/24/03 12.65 19.6 9/24/03 | 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 9/24/03 12.65 278.85 279.53 10 | 204516
 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* AF. 3757 -110.927 19N 06E 26 3600 8/19/03 10.4 3510 7.4 210 9.11 205508 BELT CREEK* E OF TOWN WELL #2 47.3757 -110.927 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205635 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205636 BELT CREEK 47.3656 -110.9975 18N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3656 -110.9975 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205638 BELT CREEK 47.3658 -110.9253 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205639 BONNIE ZANTO 47.4478 -110.9253 18N 06E 25 DDDA 8/27/03 19.9 27 7.48 513 206358 BONNIE ZANTO 47.4478 -110.9252 200 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 | 205508 BELT CREEK * E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20/03 20.9 450 7.48 253 8.28 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205638 BELT CREEK 47.3753 -110.9163 19N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 19N 06E 26 DDDA 8/27/03 19.4 371 7.22 512 205839 BONNIE ZANTO 47.4478 -110.9253 19N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205639 BELT CREEK 47.3753 -110.9183 19N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 205639 BELT CREEK 47.3806 -110.9253 18N 06E 26 DBA 8/27/03 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205836 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 512 205839 BELT CREEK 47.3808 -110.9254 18N 06E 26 DBA 8/27/03 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/26/03 97.2 13.1 789 6.82 190 0 14.6 | 205836 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 8/27/03 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E
35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 | 207258 PLEASENT VALLEY COLONY | 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 9N 06E 29 ACBB 3770 72 5277/3 30.59 10 7.21 85.8 207266 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8271/3 30.59 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.292 -111.027 110.9566 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9566 18N 06E 3 BCAD 4060 56.3 8/24/03 25.69 8 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.3 10.02 606 6.92 78 2.82 207677 HARRIS JOHN *PONO 47.377 -110.9918 19N 06E 36 ACAA 3560 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.73 207930 GARY CROWDER 47.3567 -110.9908 19N 06E 32 DAA 3600 15/27/03 28 29.9 10.3 476 7.27 237 0 7.72 207930 JIM LARSON SPRING 2 47.3567 -110.9918 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20614 JOHN HARRIS S-9 47.3699 -110.9914 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209516 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3820 5/28/03 14.6 775 8.01 103 9 209516 EDWARD GOO PONO 47.357 -110.9929 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20517 JIM LARSON S-1 47.3563 -110.9931 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20517 JIM LARSON S-1 47.3569 -110.9914 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20516 EDWARD GOO PONO 47.358 -110.9921 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20516 EDWARD GOO PONO 47.358 -110.9921 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 20516 EDWARD GOO PONO 47.358 -110.9921 19N 06E 32 DAA 4020 5/27/03 18.6 600 6.22 105.5 6.9 20516 EDWARD GOO PONO 47.358 -110.9921 19N 06E 32 DAA 4020 5/27/03 18.6 600 6.22 105.5 6.9 20510 10.5 600 6.22 105.5 6.9 20510 10.5 600 6.22 105.5 6.9 20510 10.5 600 6.22 105.5 6.9 20510 10.5 600 6.22 105.5 6.9 20510 10.5 60 | 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/27/03 30.59 10 7.21 85.8 207256 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/27/03 30.59 10 7.21 85.8 207266 NELSON ROGER 47.292 -111.0247 18N 06E 29 ACBB 3770 72 8/27/03 30.59 10.7 137 7.55 137 1.5 8.03 80.30 10.7 137 7.50 137 10.90 10.5 137 10.90 10.5 137 10.90 10.5 137 10.90 | 207258 PLEASENT VALLEY COLONY
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| 200617 FERNCH COULEE* HIGHWAY PRAIN 47.372 -110.0265 190.00 62 20 CDDA 3560 017.773 110.00 7.775 7.00 13 50 0.00 7.775 200617 FERNCH COULEE* HIGHWAY PRAIN 47.372 -110.0265 190.00 62 CDDA 3560 017.773 110.00 7.7775 7.775 | 200617 FRENCH COULEE HINGHWAY DRAIN 47.3722 - 110.9285 110.0 60E 26 CDDA 3600 10.0 0 10.0 0 700 7.60 304 8.8 | 200817 FRENCH COLLEE* HIGHWAY DRAIN 47.3722 -110.8285 SNO 68 26 CDDA 3660 -24.044 -8.3 520 516 322 12 12 12 12 12 12 1 | 200817 FRENCH COLLEE* HIGHWAY DRAIN 47.3722 -110.8265 190.06E 26 CDDA 3.560 62.404 8.2 12.1 5.06 7.3 372 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 10.4 10.2 | 200967 FRENCH COULET + HIGHWAY DRAIN 47,272 110,925 19N 06E 20 CDDA 3560 81,000 9 CDDA 3560 3560 9 CDDA 3560 3560 9 CDDA 3560 3 | 201666 RAY OGLE 47,3469 -110.9416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416 170.0416
170.0416 | 201373 CALEN MCCLELAND A7,3374 -110,8252 Final OBE SECONDARY OBE O | 202378 | 2024581 GENE ERBETTA 47.4316 -110.9169 19N 06E 12 5888 3440 35 91.102 6.28 13.4 44.6 7.09 163.9 0 | 203450 PANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J UPPER BOX ELDER CREEK * | Depart Sox Elder Creek* 1-LARSON RANCH 17,3586 110,986 19N 08E 32 3840 611/03 18.2 400 7.89 288 7.81 203450 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3586 -110,9886 19N 08E 32 3840 191803 8.7 620 7.55 245 9.13 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3586 -110,9886 19N 08E 32 3840 191803 8.7 620 7.55 245 9.13 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3779 -110,8856 19N 08E 23 3840 191803 8.8 296 7.8 12.8 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3779 -110,8856 19N 08E 29 3745 52803 24.5 680 8.2 236 5.73 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3779 -110,8856 19N 08E 29 3745 52803 24.5 680 8.2 236 5.73 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3779 -110,8856 19N 08E 29 3745 52803 24.5 680 8.2 236 5.73 19PER SOX ELDER CREEK* 1-LARSON RANCH 17,3779 -110,8856 19N 08E 29 3745 381 11/2702 12.9 11.3 19N 11/2702 12.9 11.3 10.3 10.5 | Display of the color of
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204516 20 | 204516 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* A7.3757 -110.927 19N 06E 26 3600 9/19/03 10.4 3510 7.4 210 9.11 205508 9ELT CREEK* F. OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3663 -110.9975 18N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3653 -110.9183 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205636 BELT CREEK 47.3608 -110.9253 18N 06E 26 DDDA 8/27/03 9/27/03 19.4 371 7.22 512 205636 BONNIE ZANTO 47.4767 -110.925 18N 06E 26 DBAB BELT CREEK 47.3808 -110.9253 18N 06E 26 DBAB BELT CREEK 47.3808 -110.9258 18N 06E 26 DBAB BELT CREEK 47.3808 -110.9258 19N 06E 26 DBCB 3530 11/27/02 17/20 13.1 789 6.82 190 0 14.6 26 DBCB 26 DBCB 26 DBCB 3530 11/27/02 | 205508 BELT CREEK * E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20703 20.9 450 7.48 253 8.28 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205636 BELT CREEK 47.3653 -110.9974 19N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205636 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 19.2 372 7.48 513 205636 BONNIE ZANTO 47.4786 -110.9253 18N 06E 26 DBAA 8/27/03 19.2 372 7.48 513 205636 BONNIE ZANTO 47.4786 -110.9268 19N 06E 26 DBCB 3530 11/27/02 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9055 16N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205639 BELT CREEK 47.3753 -110.9183 19N 06E 26 DDDA 8/27/03 18L T CREEK 47.3656 -110.9268 19N 06E 26 DBA 8/27/03 18L T CREEK 47.3665 -110.9268 19N 06E 26 DBA 8/27/03 19.2 372 7.48 513 206356 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.92 190 0 14.6 26360 FRANK BALITOR 47.3788 -110.9268 19N 06E 26 DBCB 3530 11/27/02 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510
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120.006 | 201696 RAY OGLE 47,346 -110.946 170.046 10.06 1 0.06 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 1 0.06 | 201323 GLEN MCCLELANO 47,376 110,995 19N 06E 20 CREA 3540 0 19N 022376 CREAK CARSON CAR | 202378 DANNY HARDINGER GINE FRBETTA 110 877 190 06E 2 8888 3440 35 911002 2.8 13.4 446 7.88 30.0 2 8.49 2.8 | 202450 GENE ERBETTA CPPER BOX ELDER CREEK *LARSON RANCH LOWER BOX ELDER CREEK *LARSON RANCH LOWER BOX ELDER CREEK *ELOW J HARSON RANCH LOWER BOX ELDER CREEK *BELOW J HARSON RANCH LOWER BOX ELD | 203450 RANCH POPER ROX ELDER CREEK * LARSON RANCH LOWER ROX ELDER CREEK * BELOW J HARSIS RANCH LOWER ROX ELDER CREEK LOWER | Depart of the color of the co | Depart Box Elder Creek* LARSON RANCH Upper Box Elder Creek* Selow 47,3586 -110,9886 19N 06E 32 3840
3840 384 | 203450 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH UPPER BOX ELDER C | Description Color | LOWER BOX ELDER CREEK * BELOW J | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH AT 3.779 - 110.9856 19N 06E 29 3745 8/17/03 23.3 395 8.15 286 7.68 204516 204516 JIM LARSON 47.3651 - 110.9484 19N 06E 24 ACDC 3926 19.6 17/27/02 12.9 8.1 17 570 8.87 288 14.3 17/27/02 18N 06E 24 ACDC 3926 19.6 17/27/02 12.9 11.31 528 7.46 233.6 8.57 204516 204 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 204516 | 204516 JJM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 0.1 11.31 526 7.46 233.6 8.57 204887 OSTERMAN ORAIN AND NOEL SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT 47.3757 -110.927 19N 06E 26 3600 8/19/03 8ELT CREEK *E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3600 8/19/03 8ELT CREEK *E OF TOWN WELL #2 47.3636 -110.9957 19N 06E 26 3600 8/19/03 820003 97.0 10 560 7.48 253 8.28 205653 JOHN HARRIS RANCH *SPRING 8ELT CREEK 47.3636 -110.9954 19N 06E 29 3920 8/19/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9956 18N 06E 26 DDDA 8LT CREEK 47.3636 -110.9956 18N 06E 26 DDDA 8LT CREEK 47.3808 -110.9958 19N 06E 26 DDDA 8LT CREEK 47.3808 -110.9958 19N 06E 26 DDDA 8.27/03 9.5 560 7.42 62 3.9 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 206360 PLANK BALLITOR 47.3784 -110.9288 19N 06E 26 DDDA 11.27/02 17.2 527/03 17.5 510 206360 PLANK BALLITOR 47.3784 -110.9288 19N 06E 26 DBCB 3770 72 527/03 30.59 10 7.21 85.8
 | 204516 | 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 204710 BELT MT 205508 BELT CREEK * E OF TOWN WELL #2 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 205663 BELT CREEK 205653 JOHN HARRIS RANCH * SPRING 205663 BELT CREEK 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205665 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 205666 JOHN HARRIS RANCH * SPRING 20666 JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN | 205508 BELT CREEK * E OF TOWN WELL #2 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 20563 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 297 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBAA 8/27/03 19.2 372 7.48 513 206356 BONNIE ZANTO 47.4476 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 206360 FRANK BALITOR 47.3788 -110.9268 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 21 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBAA 8/27/03 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207.258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8
 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 9/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 8/27/03 97.2 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 206360 FRANK BALITOR 47.3788 -110.9248 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 21 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 | 207463 IRVINE BRUCE KEASTER 47.3537 -110.9566 18N 06E 3 BCAD 4060 56.3 872403 25.69 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 207672 IRVINE 47.3559 -110.9587 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 20767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 20767 GARY CROWDER 47.3569 -110.9918 19N 06E 29 3760 9/19/03 9/19/03 9/19/03 9/19/03 9/19/03 9/19/03 9/19/03 207930 GARY CROWDER 47.3676 -110.9918 19N 06E 36 ACAA 3660 40 10/21/03 28 28.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3637 -110.9806 19N 06E 32 DAA 4020 5/27/03 18.8 800 8.22 105.5 8.9 209516 JOHN HARRIS S-9 47.3689 -110.9896 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 5/30/03 18.7 512 7.91 40.3 | 207643 IRVINE BRUCE KEASTER 47.3537 -110.9566 18N 06E 3 BCAD 4080 58.3 9/24/03 25.69 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCCC 4022 9/24/03 9/24/03 25.69 8/20/03 125.4 10.02 606 8.92 76 2.82 207672 1RVINE 47.3559 -110.9587 19N 06E 34 CCCC 4022 9/24/03 9/24/03 10.51 558 7.18 178 0 10.91 207930 GARY CROWDER 47.3676 -110.9031 19N 06E 36 ACAA 3560 40 10/21/03 28 20.9 10.3 476 7.27 237 0 7.92 207940 JIM LARSON SPRING 3 47.3637 -110.9816 19N 06E 32 AAD 3860 5/27/03 28 20.9 10.3 476 7.27 237 0 7.92 209516 JOHN HARRIS S-0 47.3699 -110.9816 19N 06E 29 C 3840 5/29/03 18.0 800 6.22 105.5 8.9 208516 EDWARD GOO POND 47.347 -110.9827 19N 06E 3 CDCB 3700 5/30/03 18.7 575 8.01 103 9 208517 JIM LARSON SPRING 47.3777 -110.9821 19N 06E 32 DAA 3860 5/27/03 18.0 675 8.01 103 9 208517 JIM LARSON SPRING 47.3777 -110.9821 19N 06E 30 DBB 3840 5/27/03 18.0 676 5106 108 108 108 108 108 108 108 108 108 108 | 207643 BRUCE KEASTER 47.3537 -110.9566 18N 06E 3 BCAD 4060 56.3 9/24/03 25.69 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.5 10.02 606 8.92 76 2.82 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCCC 4022 9/24/03 9/24/03 10.51 558 7.18 178 0 10.91 207930 GARY CROWDER 47.3676 -110.9918 19N 06E 36 ACAA 3660 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3676 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 800 8.22 105.5 8.9 209516 JOHN HARRIS S-9 47.3699 -110.9816 19N 06E 29 C 3840 5/29/03 18.8 800 8.22 105.5 8.9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 30 DAB 3860 5/27/03 18.7 578 8.01 103 9 9 209526 PLEASANT VALLEY COLONY SPRING 47.3755 -110.9891 19N 06E 29 C 3840 5/27/03 18.7 578 8.22 8.23 7.5 209527 PLEASANT VALLEY COLONY SPRING 47.3755 -110.9906 19N 06E 30 DAB 3800 5/27/03 18.1 574 8.58 141 6 8 | 207649 BRUCE KEASTER 47.3507 -110.9756 18N 06E 3 BCAD 4080 56.3 8/24/03 25.69 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 6/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 2076767 HARRIS JOHN * PONO 47.37 -110.9914 19N 06E 29 DAAA 3860 186 5/7/04 118.3 207930 GARY CROWDER 47.3678 -110.9031 19N 06E 29 DAAA 3860 186 5/7/04 118.3 209930 JIM LARSON SPRING 3 47.3678 -110.9031 19N 06E 36 ACAA 3560 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JJM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 800 6.22 105.5 8.9 209516 JOHN HARRIS S-9 47.3699 -110.9914 19N 06E 32 DAA 4020 5/27/03 18.8 800 6.22 105.5 8.9 209516 EDWARD GOO POND 47.3488 -110.9527 19N 06E 32 DAB 5/29/03 5/29/03 14.6 775 8.01 103 9 209516 EDWARD
GOO POND 47.3583 -110.9914 19N 06E 32 DAB 3840 5/27/03 18.8 800 6.22 105.5 8.9 209526 PLEASANT VALLEY COLONY S-4 47.355 -110.9706 19N 06E 32 DBB 3840 5/27/03 18.1 574 8.58 141 6 878 7.55 106 209527 PLEASANT VALLEY COLONY S-4 47.355 -110.9706 19N 06E 38 ACAD 3580 27.5 10/21/03 800 27. | 207649 BRUCE KEASTER 47.3507 -110.9566 18N 66E 3 BCAD 4080 56.3 9/24/03 25.89 18N 66E 29 DAAA 3860 186 6/2003 125.4 18N 66E 29 DAAA 3860 186 6/2003 125.4 18N 66E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 4.9 4.9 4.7 | 207649 BRUCE KEASTER 47.4033 -110.9756 19N 06E 3 BCAD 4080 56.3 8/24/03 25.89 8/24/03 125.4 11.1 12.0 75.5 3.0 8/24/03 125.4 11.1 12.0 75.5 3.9 8/24/03 125.4 11.1 12.0 75.5 3.0 8/24/03 125.4 11.1 12 | 207649 BURGE EXPLORATION ACM WELL 27.3878 -110.9784 9N 06E 29 DAAA 3860 186 8/25/03 125.4 11.1 220 7.21 310 | 207643 IRVINE 47,3507 -110,9756 18N 06E 3 8CAD 4080 56.3 802403 25.66 411 18.8 992 7.02 75.5 3.9 207682 BURGE EXPLORATION ACM WELL 47,3797 -110,9794 19N 06E 29 DAAA 3860 186 425004 118.5 11.1 220 7.21 310 310 207682 BURGE EXPLORATION ACM WELL 47,3797 -110,9794 19N 06E 29 DAAA 3860 186 425004 118.5 11.1 220 7.21 310 4.9 207682 BURGE EXPLORATION ACM WELL 47,3797 -110,9794 19N 06E 29 DAAA 3860 186 472504 118.5 11.1 220 7.21 310 4.9 207672 IRVINE 47,3589 -110,9856 19N 06E 30 DAAA 3860 186 57704 118.3 10.02 606 6.92 76 2.22 207677 HARRIS JOHN *PONO 47,377 -110,9916 19N 06E 30 ACAA 3560 40 102,1703 28 28.9 10.3 476 7.27 237 0 7.92 209489 JIM LARSON SPRING 3 47,3837 -110,9806 19N 06E 32 DAAA 3860 527703 527703 28 28.9 10.3 476 7.27 237 0 7.92 209514 JOHN HARRIS S-0 47,3897 -110,9816 18N 06E 32 DAA 4020 527703 18.8 800 8.22 105.5 5.4 209515 JOHN HARRIS S-0 47,3897 -110,9816 18N 06E 20 C 3820 52903 14.6 8775 8.0 103 9 209516 EDWARD GOO POND 47,4348 -110,9821 19N 06E 20 C 3820 52703 14.6 875 8.0 103 9 209517 PLEASANT VALLEY COLONY SPRING 47,3883 -110,9861 18N 06E 19 CCCD 4160 47904 181 574 8.8 411 1 1 10.9 1 1 1 1 1 1 1 1 1 | 207463 BRUGE KEASTER 47.3507 -110.9568 18N 05E 3 8CAD 499 56.3 87.2403 25.69 180 05E 3 207649 207649 BRUGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 05E 29 DAAA 3860 186 47.2504 118.3 11.1 220 7.21 310 4.9 207662 207672
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| 200617 FRENCH COULE * HIGHWAY DRAIN 47,372 110,8265 100 062 26 CDDA 3500 57,033 15,1 40 8,13 50 10,0 | 200617 FRENCH COULEE* HIGHWAY DRAIN 47 3722 -110 8255 18N 06E 26 CODA 3600 71 703 10.6 750 7.65 30.4 6.8 200617 FRENCH COULEE* HIGHWAY DRAIN 47 3722 -110 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3722 -10 8255 18N 06E 26 CODA 3600 47 3724 -10 8255 -10 825 | 200817 FRENCH COULE - HIGHWAY DRAIN 47.372 -110.9285 19N 06E 26 CDDA 3500 47.040 12.19 586 73.8 37.2 17.0 10.4 | 200817 FERNCH COULEE* HINGHWAY PRAIN 47,3722 - 110,9285 110,000 age 20 CDDA 3600 62,404 11 506 7.3 372 110,000 11 11 10 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 12 11 10 1 | 200667 FRENCH COULEE* HIGHMAY DRAIN 47,3722 -110,8265 180,066 26 COCA 3560 -110,0665
-110,0665 | 201696 RAY OOLE 47.314 -110.9475 180.967 180.967 180.967 180.967 190 | 201323 GLEN NCCLELANO 47,374 110,9262 19N 06E 26 OCBA 3540 0 0 0 0 0 0 0 0 0 | 202398 DANN HARDINGER 47.3161 -110.877 19N OSE 2 5 6 COCA 4240 0 5 7.980 3.4 7.8 801 6.88 30.0 2 6.49 202381 2 | 203451 GENE ERBETTA 174.518 110.9865 19N 05E 12 8888 3440 35 811.00 2.28 13.4 446 7.89 183.9 0 | 203450 PARCH A73586 -110,0868 10N 06E 32 3840 617,03 18.2 400 7.89 298 7.81
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 | LOWER BOX ELDER CREEK 'S BLOW J HARRIS RANCH 'A7.3779' -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 204516 204516 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 11/27/02 12.9 8.1 204687 OSTERMAN DAIN AND NOEL 47.3766 -110.9955 19N 06E 36 BACD 3570 381 11/26/02 278.85 279.53 10 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN' BELT MT 47.3757 -110.927 19N 06E 26 3600 7/17/03 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN' BELT MT 47.3757 -110.927 19N 06E 26 3600 8/19/03 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN' BELT MT 47.3757 -110.927 19N 06E 26 3600 8/19/03 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN' BELT MT 47.3757 -110.927 19N 06E 26 3520 8/20/03 205653 JOHN HARRIS RANCH 'SPRING 47.3663 -110.9974 19N 06E 28 3920 8/19/03 205853 JOHN HARRIS RANCH 'SPRING 47.3663 -110.9974 19N 06E 28 3920 10/23/03 205858 BELT CREEK 47.3753 -110.9183 19N 06E 28 3920 10/23/03 205859 BELT CREEK 47.3753 -110.9183 19N 06E 26 DBBA 206358 BONNIE ZANTO 47.4478 -110.928 19N 06E 26 DBBA 207258 PLEASENT VALLEY COLONY 47.3784 -110.9281 19N 06E 29 ACBB 3770 72 8/27/03 38.51 38.3 10.7 137 7.55 137 1.5 8.03 | 204516 20 | 204516 JJI LARSON OSTERMAN DARIN AND NOEL SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE | 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 205508 BELT CREEK* E OF TOWN WELL #2 205508 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 205636 BELT CREEK 205636 BELT CREEK 47.3636 -110.9974 19N 06E 29 3920 10/23/03 205637 BELT CREEK 47.3636 -110.9974 19N 06E 29 3920 10/23/03 205638 BELT CREEK 47.3636 -110.9974 19N 06E 29 3920 10/23/03 205639 BELT CREEK 47.3636 -110.9974 19N 06E 29 3920 10/23/03 205639 BELT CREEK 47.3636 -110.9975 18N 06E 26 DDDA 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 206396 BONNIE ZANTO 47.47478 -110.9254 20N 06E 35 DCDB 206390 FRANK BALITOR 47.4788 -110.9288 19N 06E 26 DBCB 206544 HOYER JERRY T. 47.4966 -110.9223 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.983
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| 200617 FRENCH COULE * HIGHWAY DRAIN 47.3722 .110.2855 100 602 20 CDA 3500 .528.033 .11.6 74.0 81.3 50 .055 | 200917 FRENCH COULEE* HIGHWAY DRAIN 47 3722 -1108255 19N 06E 26 CDDA 3660 67 4003 10.6 700 7.6 304 1.6 1.0 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47.372 110.825 18N 06E 2 CDDA 3560 47.404 8.3 690 77.4 110 2008 17 12.1 12 | 200817 FRENCH COULEE HINGHWAY PRAIN 47.3722 - 110.9285 180 N 06E 20 CDDA 3600 62.404 11 S 68 7.3 372 11.0 17.0 | 200666 RAYO | 201696
 | 201978 CHAPTER OF LICENMOCHE A7 374 -110 6262 180 086 26 DAC A7 3604 -110 6969 180 086 27 0869 28 0860 28 08 08 08 0 28 08 08 0 28 08 08 08 0 28 08 08 0 28 08 08 0 28 08 08 08 0 28 08 08 08 0 28 08 08 08 0 28 08 08 08 0 28 08 08 08 0 28 08 08 08 0 28 08 08 08 08 08 0 28 08 08 08 08 08 08 08 08 08 08 08 08 08 | 202378 DANNY HARDINGER GENE REBETTA 47.4318 110.9787 18N DEE 8 COCA 4240 0 5.7800 3.4 7.6 801 6.86 30.09 2 8.49 202681 | 203450 Gene Erabetta 47,4718 -110,9159 1994 06E 12 8888 3440 35 91,102 9.28 13.4 446 7.69 103.9 0 | 203450 PANCH UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J HARRIS RANCH UPPER BOX ELDER CREEK BELOW J UPPER BO | Depart of the color of the co | Dipper Rox Elder Creek* LARSON A7.3596 -110.9868 19N 06E 32 3840 7/17/03
 | UPPER BOX ELDER CREEK * LARSON RANCH 17,3896 110,9868 19N 06E 32 3840 9/18/03 15.0 620 7.85 245 9.13 13 14 14 14 14 14 14 | Dept. Box Elder Creek - Larson 47.3586 - 110.9888 19N 06E 32 3840 9/18/03 8.7 620 7.58 245 9.13 | LOWER BOX ELDER CREEK BELOW J HARRIS RANCH LOWER BOX ELDER CREEK BELOW J HARRIS RANCH LOWER BOX ELDER CREEK BELOW J HARRIS RANCH LOWER BOX ELDER CREEK BELOW J HARRIS RANCH LOWER BOX ELDER CREEK BELOW J HARRIS RANCH 47.3776 -110.9856 19N 06E 29 3745 8917/03 23.3 396 8.15 286 7.68 23451 | LOWER BOX ELDER CREEK * BELOW J 47.3779 -110.9856 19N 06E 29 3745 23.3 395 8.15 286 7.68 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 204516
204516 20 | 204516 20 | 204516 204887 OSTERMAN DARIN AND NOEL SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* AT SEEP ON LEFT SIDE OF SEEP ON LEFT SIDE OF SEEP ON LEFT SIDE O | 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 205508 BELT CREEK * C P TOWN WELL #2 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 205653 BELT CREEK 47.3663 -110.9974 19N 06E 29 205653 BELT CREEK 47.3663 -110.9974 19N 06E 29 205653 BELT CREEK 47.3663 -110.9974 19N 06E 29 205636 BELT CREEK 47.3663 -110.9974 19N 06E 29 205637 BELT CREEK 47.3663 -110.9974 19N 06E 29 205638 BELT CREEK 47.3663 -110.9974 19N 06E 29 205639 BELT CREEK 47.3763 -110.9183 18N 06E 12 ABDA 205639 BELT CREEK 47.3763 -110.9253 18N 06E 26 DDDA 205639 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 206350 FRANK BALITOR 47.3784 -110.923 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 207258 PLEASENT VALLEY COLONY 47.37 | 205508 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9183 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205639 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 8/27/03 8/27/03 97.2 13.1 789 6.82 190 0 14.6 205644 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 BCB 3530 11/27/02 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7
137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9836 18N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9836 18N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.0 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDBA 8/27/03 19.2 372 7.48 513 205358 BONNIE ZANTO 47.4758 -110.9264 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 205644 HOYER JERRY T. 47.4296 -110.9281 19N 06E 26 DBCB 3530 111/27/02 205644 HOYER JERRY T. 47.4296 -110.923 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 30.59 10 7.21 85.8 207266 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.292 -1110.2971 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9566 18N 06E 3 BCAD 4060 56.3 8/24/03 25.69 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 8ELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 8/27/03 97.2 18.4 371 7.22 512 8/27/03 206358 BONNIE ZANTO 47.4478 -110.9248 19N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 PRANK BALITOR 47.3788 -110.9224 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.292 -1110.9247 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9566 18N 06E 3 BCAD 4080 56.3 8/24/03 25.69 | 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 78 2.82 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCCC 4022 9/24/03 9/24/03 10.51 558 7.18 178 0 10.91 207930 GARY CROWDER 47.3678 -110.9031 19N 06E 39 3760 9/19/03 28 20.9 10.3 476 7.27 237 0 7.92 207940 JIM LARSON SPRING 3 47.3678 -110.9809 19N 06E 32 AAD 3860 5/27/03 28 20.9 10.3 476 7.27 237 0 7.92 207940 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 40/20 5/27/03 18.8 800 8.22 105.5 8.9 209516 JOHN HARRIS S-0 47.3699 -110.9814 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 5/30/03 18.7 512 7.91 40.3 | 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCC 4022 9/24/03 | 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 20762 207672 IRVINE 47.3559 -110.9597 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 78 2.82 207676 HARRIS JOHN * PONO 47.37 -110.9597 19N 06E 29 3760 9/19/03 207930 GARY CROWDER 47.3676 -110.9031 19N 06E 29 3760 9/19/03 209498 JIM LARSON SPRING 3 47.3676 -110.9031 19N 06E 36 ACAA 3660 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 AAD 3860 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JOHN HARRIS S-0 47.3587 -110.9816 19N 06E 29 C 3840 5/29/03 18.8 800 8.22 105.5 8.9 209515 JOHN HARRIS S-0 47.3699 -110.9816 19N 06E 29 C 3840 5/29/03 18.8 800 8.22 105.5 8.9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 30 CDCB 3700 5/30/03 18.7 512 7.91 40.3 209526 PLEASANT VALLEY COLONY SPRING 47.3755 -110.9056 19N 06E 29 DCAA 3800 5/27/03 18.6 876 7.65 106 209527 PLEASANT VALLEY COLONY SPRING 47.3755 -110.9056 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6
 | 207662 BURGE EXPLORATION ACM WELL 27.3767 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 207676 18VINE 47.3559 -110.9597 19N 06E 29 3760 9/1903 | 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 472504 118.58 11.1 220 7.21 310 4.9 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 57704 118.3 10.02 606 8.92 76 2.82 10.07767 18VINE 47.3559 -110.9667 19N 06E 34 CCCC 4022 92.403 97.403 10.51 6558 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.51 658 7.18 178 0 10.91 10.91 10.51 658 7.18 178 0 10.91 10.9 | 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9784 19N 06E 29 DAAA 3860 186 47.2504 118.58 11.1 220 7.21 310 4.9 8 1207672 18VINE 47.3787 -110.9786 19N 06E 29 DAAA 3860 186 57/04 118.3 110.02 606 6.92 76 2.82 10.7767 18VINE 47.3787 -110.9896 19N 06E 29 DAAA 3860 186 57/04 118.3 110.02 606 6.92 76 2.82 10.9201 18VINE 47.3787 -110.9896 19N 06E 29 DAAA 3860 186 57/04 118.3 110.02 606 6.92 76 2.82 10.9201 19N 06E 29 DAAA 3860 186 57/04 118.3 10.02 606 6.92 76 10.91 | 207662 BURGE EXPLORATION ACM WELL 87.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/2504 118.58 11.1 220 7.21 310 4.9 2.82 207672 18URGE EXPLORATION ACM WELL 17.3787 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.3 10.51 558 7.18 178 0 10.91 207767 HARRIS JOHN *PONO 47.37 -110.9816 19N 06E 29 DAAA 3860 186 57/04 118.3 10.51 558 7.18 178 0 10.91 207793 10N 14.7367 110.9816 19N 06E 29 DAAA 3860 186 57/04 118.3 10.51 558 7.18 178 0 10.91 10.91 10N 14.7367 110.9816 19N 06E 29 DAAA 3860 186 57/04 118.3 10.51 558 7.18 178 0 10.91 10N 14.7367 110.9816 19N 06E 29 DAAA 3860 186 57/04 118.3 10.51 558 7.18 178 0 10.91 10N 14.7367 110.9816 19N 06E 34 CCCC 4022 197403 28 29.9 10.3 476 7.27 237 0 7.92 10N 14.7367 110.9816 19N 06E 32 DAA 4020 527703 18N 14.7367 110.9816 19N 06E 32 DAA 4020 527703 18N 14.7367 110.9816 19N 06E 32 DAA 4020 527703 18N 14.7367 110.9816 19N 06E 32 DAA 4020 527003 18N 14.6 835 7.9 76 8.9 10.3 476 7.27 237 0 7.92 10N 14.7367 110.9816 19N 06E 32 DAA 4020 527003 18N 14.6 835 7.9 76 8.9 10.9 10N 14.7367 110.9816 19N 06E 32 DAB 3840 527703 18N 14.7 835 7.9 76 8.9 10.9 10N 14.7 835 7.10.9816 19N 06E 32 DAB 3840 527703 18N 14.7 835 7.1 10.9 18 10N 14.7 83 | 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3880 186 4/2504 118.58 11.1 220 7.21 310 4.9 2.82 207672 1 RVINE 47.3567 -110.9794 19N 06E 29 DAAA 3880 186 57/04 118.3 10.02 606 8.92 76 2.82 207672 1 RVINE 47.3567 -110.9918 19N 06E 29 DAAA 3880 186 57/04 118.3 10.02 606 8.92 76 2.82 207675 1 RVINE 47.3567 -110.9918 19N 06E 29 DAAA 3880 186 57/04 118.3 10.02 606 8.92 76 2.82 209408 2.82 209509 1 RARRIS JOHN *POND 47.37 -110.9918 19N 06E 29 DAAA 3880 186 57/04 20070767 1 RVINE 47.3567 -110.9918 19N 06E 29 DAAA 3880 186 57/04 20070767 1 RVINE 47.3567 -110.9918 19N 06E 29 DAAA 3880 186 57/04 20070767 1 RVINE 47.357 -110.9918 19N 06E 29 DAAA 3880 186 57/04 20070767 1 RVINE 47.3567 -110.9918 19N 06E 29 DAAA 3880 180 50 27/03 28 20.9 10.51 558 7.18 178 0 10.91
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| 200617 FRENCH COULE E* HIGHWAY DRAIN 47.3722 -110.2855 101 082 20 CDDA 3500 52.803 115.1 470 813 50 105 20 CDDA 3500 20 CDDA | 200917 FRENCH-COULE **HIGHWAY DRAIN 47.3722 - 110.0265 | 200617 FRENCH COULEE* HIGHWAY DRAIN 47.3722 110.8255 18N 06E 2 CDDA 3650 47.4004 8.3 690 77.4 190 192 | 200817 FRENCH COULEE* HIGHWAY DRAIN 47 3722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 62.404 12.15 686 7.3 722 110.8265 18N 06E 26 CDBA 3500 18N 06E 26 CDBA | 200665 FRENCH COULES + ING-MAY DRAIN 47,372 -110,8265 18 0 6E 20 CDDA 3500 -120,0 | 201666 RAYOGLE 47.349 -110.8475 110.868 180 06E 2 0.000 0. | 201978 PONDERIOSA CAMPGROUND 47 3737 -110 6262 19N 06E 26 DACA 3540 202978
202978 20 | 202378 DANY HARDINGER GENE REBETTA 47.4319 110.9767 19N 06E 12 8686 3440 3 6110702 2.8 13.4 44.6 7.09 13.9 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 | 203450 GENE ERBETTA 4,7419 -110.9159 19N 06E 12 5888 3440 35 611N2 6.28 13.4 446 7.09 163.9 0 17.02 1.02 | 203450 PARCH UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK LARSON 47.3566 110.9866 19N OSE 32 3840 47.2504 13 635 6.48 296 12.8 12 | 203450 UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK LABON RANCH UPPER BOX ELDER CREEK LABON RANCH UPPER BOX ELDER CREEK LABON RANCH UPP | Depart of the color of the co | Difference Large | 203450 UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH UPPER BOX ELDER CREEK * LARSON RANCH LOWER BOX ELDER CREEK * BELOW HARRIS RANCH LOWER BOX ELDER CREEK * BELOW HARRIS RANCH AT 3776 - 110,8856 19N 06E 29
 | LOWER BOX ELDER CREEK* BELOW HARRIS RANCH A7.3779 -110.9856 19N 06E 29 3745 5/28/03 24.5 680 8.2 236 5.73 680 68 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3776 -110.9856 19N 06E 29 3745 8/17/03 22.3 395 8.15 286 7.68 1/204516 204516 JIM LARSON 47.3851 -110.9845 19N 06E 29 3745 4/25/04 17 570 8.67 288 14.3 1/204516 204516 JIM LARSON 47.3851 -110.9845 19N 06E 34 ACDC 3926 19.6 1/27/02 12.9 8.1 1/27/02 12.9 8.1 1/27/02 12.9 1.1 1/27/02 12.9 1.1 1/27/02 12.9 1.1 1/27/02 12.9 1.1 1/27/02 12.9 1.1 1/27/02 1.2 1/27/02 1/27/03 1.1 1/27/02 1/27/03 1.1 1/27/02 1/27/03 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 20 3745 4/25/04 12.9 8.1 17 570 8.67 298 14.3 204516 | 204516 20 | 204516 JM LARSON
 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRAIN* AF 3757 -110.927 19N 06E 26 3600 9/19/03 10.4 3510 7.4 210 9.11 205508 BELT CREEK* E OF TOWN WELL #2 47.3757 -110.9257 19N 06E 26 3520 8/20/03 20.9 460 7.48 253 8.28 205653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 8/19/03 10 560 7.02 234 4.29 205636 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3656 -110.9055 18N 06E 12 ABDA 205638 BELT CREEK 47.3656 -110.9055 18N 06E 12 ABDA 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 17.9 297 7.79 510 205636 BONNIE ZANTO 47.47478 -110.9253 18N 06E 26 DBAB 8/27/03 8/27/03 18.4 371 7.22 512 205636 FRANK BALITOR 47.3788 -110.9253 18N 06E 26 DBCB 8/27/03 97.2 13.1 789 8.82 190 0 14.5 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207266 BRUCE KEASTER 47.3033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 | 205508 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 20563 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.42 62 3.9 205636 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205638 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 19.2 372 7.48 513 206356 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 7.99 6.82 190 0 14.6 206360 FRANK BALITOR 47.3788 -110.9248 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 21 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207256 NELSON ROGER 47.3984 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207266 NELSON ROGER 47.392 -111.0247 88 N0 06E 18 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207649 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 312 205839 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 8/27/03 97.2 19.2 372 7.48 513 206330 FRANK BALITOR 47.3788 -110.9248 19N 06E 26 DBCB 3530 11/27/02 1205844 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.282 -111.0247 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207649 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.55 3.9 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 8/27/03 8/27/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 8/27/03 8/27/03 97.2 19.2 372 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 7.3784 -110.9283 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.923 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207259 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207256 NELSON ROGER 47.292 -111.02476 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0
0.52 207269 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 892 7.02 75.5 3.9 | 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCC 4022 9/24/03 10.51 558 7.18 178 0 10.91 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/19/03 8.0 500 7.34 192 7.73 207930 GARY CROWDER 47.3676 -110.9801 19N 06E 32 AAD 3660 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3676 -110.9801 19N 06E 32 AAD 3660 5/27/03 20.7 8.19 74.6 5.4 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 600 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.3699 -110.9896 19N 06E 29 C 3840 5/28/03 14.4 835 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9896 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/28/03 18.7 512 7.91 40.3 | 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCC 4022 9/24/03 9/1903 10.51 558 7.18 178 0 10.91 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/1903 0 6.0 500 7.34 192 7.73 209498 JIM LARSON SPRING 3 47.3637 -110.9808 19N 06E 32 AAD 3660 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 AAD 3660 5/27/03 20.7 8.19 74.6 5.4 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 40/20 5/27/03 18.8 800 8.22 105.5 8.9 209516 JOHN HARRIS S-0 47.3699 -110.9816 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9827 19N 06E 30 CDCB 3700 5/30/03 18.7 512 7.91 40.3 209516 JIM LARSON S-1 JIM LARSON S-1 JIM LARSON S-1 JIM LARSON S-1 JIM LARSON S-1 JIM LARSON S-1 JIM LARSON S-1 110.9819 19N 06E 29 DCAA 3800 5/27/03 21.6 799 8.22 82.3 7.5 | 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCC 4022 9/24/03 9/1903 0.6.6 500 7.34 192 7.73 10.9918 19N 06E 29 3760 9/1903 0.6.6 500 7.34 192 7.73 10.9918 19N 06E 32 AAD 3660 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3637 -110.9806 19N 06E 32 AAD 3660 5/27/03 18.8 600 6.22 105.5 6.9 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 40/20 5/27/03 18.8 600 6.22 105.5 6.9 209501 JIM LARSON SPRING 2 47.369 -110.9896 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 JOHN HARRIS S-9 47.369 -110.9896 19N 06E 29 C 3820 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 29 C 3820 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 32 DBB 3840 5/27/03 21.6 799 6.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3757 -110.9899 19N 06E 29 DCAA 3800 5/27/03 21.6 799 6.22 82.3 7.5 209527 PLEASANT VALLEY COLLONY SPRING 47.355 -110.9705 19N 06E 33 BD 3910 5/27/03 18.1 574 8.58 141 6 | 207672 IRVINE 47.3559 -110.9587 19N 06E 34 CCC 4022 9/24/03 9/19/03 0.6 500 7.34 192 7.73 | 207672 IRVINE 47.3559 -110.9567 19N 06E 34 CCC 4022 8/24/03 9/19/03 28 29.9 10.51 558 7.18 178 0 10.91 207767 207767 47.377 -110.9918 19N 06E 29 3780 9/19/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3637 -110.9909 19N 06E 32 AAD 3600 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9916 19N 06E 32 DAA 40/20 5/27/03 18.8 800 8/22 105.5 8.9 47.3597 -110.9916 19N 06E 32 DAA 40/20 5/27/03 18.8 800
8/22 105.5 8.9 47.3597 -110.9916 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.348 -110.9527 19N 06E 2 DAA 3800 5/27/03 21.6 799 8.22 62.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 18.7 512 7.91 40.3 209527 PLEASANT VALLEY COLONY S-4 47.3653 -110.9951 19N 06E 32 DAB 3840 5/27/03 18.1 574 8.58 141 6 6 6 6 6 6 6 6 6 | 10.51 558 7.18 178 0 10.91 10.91 1 | 207767 | 207672 IRVINE | 2077672 IRVINE 47.3559 -110.9867 19N 06E 34 CCCC 4022 9/2403 |
| 200917 FRENCH COULEE* HIGHWAY DRAIN 47.3722 110.6281 184 66E 20 CODA 3600 17770 151 400 67 42 110.5 100.000 100.000 100.000 151 400 407 42 110.5 100.0000 100.0000 100.0000 10 | 200917 FRENCH-COULEE* HIGHWAY DRAIN 47.3722 -110.0265 191 0 05 20 CDDA 3560 77.7733 106.770 7.95 304 6.8 200917 78.0000 CDDA 37.3722 -110.0265 191 0 05 20 CDDA 3560 81.900 30.00 4.00000 4.00000 4.00000 4.00000 4.00000 4.00000 4.00000 4.00000 4. | 200917 FRENCH COULET HIGHWAY DRAIN 47.3722 110,0255 | 200917 FRENCH COULEE* HIGHWAY DRAIN 47.372 | 2001-096 PRENCH COLLEE* HIGHWAY DRAIN 47,3722 -110,8785 500
 | 200666 RAYOGLE 47.349 -110.6475 19N 06E 15 DBAC 4608 110 070 071 | 201473 GLEH MCCLELAND 47,374 -110,9282 110,9985 180,096 180,09 | 202349 DANN HARDINGER 47 3241 -110 6974 180 06E 2 COCA 4240 0 519003 3.4 7.6 60.3 50.00 2 0.4 | 203450 DPER BOX ELDER CREEK LARSON UPPER BOX ELDER CREEK | 203450 PROPER BOX ELDER CREEK *LARSON RANCH 47,3566 -110,9666 19N 06E 32 3840 617/03 18.2 400 7.89 209 7.81 | UPPER OX ELDER CREEX LARSON 47.3566 -110.9866 19N 06E 32 3840 617/03 18.2 400 7.89 299 7.81
 | 203460 UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK LARSON RANCH UPPER BOX ELDER CREEK LARSON UPPER BOX ELDER CREEK LABON UPPER BOX ELDER CREEK LABON UPPER BOX | Depart Roy Liber Rores Larson 47,358 110,888 19N 06E 32 3840 81903 15.5 620 7.55 253 7.83 20450 10PER BOX ELDER CREEK LARSON 47,3586 -110,888 19N 06E 32 3840 91803 8.7 620 7.55 245 9.13 10960 1002300 1002300 | Depart Rox Elder Creek* LARSON 47.3586 -110.9888 19N 06E 32 3840 9/1803 8.7 620 7.58 245 9.13 203450 Depart Rox Elder Creek* LARSON 47.3586 -110.9888 19N 06E 32 3840 10/23/03 8.3 660 7.71 66 6.95 6. | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3776 -110.9856 19N 06E 29 3745 5728/03 24.5 680 8.2 236 5.73 203451 LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH 47.3776 -110.9856 19N 06E 29 3745 8717/03 23.3 395 8.15 286 7.68 203451 204516 JIM LARSON 47.3651 -110.9856 19N 06E 29 3745 47.500 47.3651 -110.9856 19N 06E 29 3745 47.500 47.500 47.3651 -110.9856 19N 06E 29 3745 47.500 47. | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH SIM AND NOEL STANDAM OARN AND NOEL JIM LARSON JIM JIM LARSON J | LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 20 3745 47.2504 12.9 8.1 17 570 8.67 288 14.3 204516
204516 204516 | 204516 JIM LARSON 47.3651 -110.9484 19N 06E 34 ACDC 3926 19.6 1127/02 12.9 8.1 13.1 526 7.46 233.6 8.57 204817 SIDE OF HIGHWAY DRAIN* 8ELT MT SIEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 9ELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 278.65 279.53 10 204710 204710 204710 3ELT CREEK* 2 07 500 N 204710 205508 3ELT CREEK* 2 07 500 N 204710 205508 3ELT CREEK* 47.3636 -110.9074 19N 06E 28 3820 82/05833 205833 3DN HARRIS RANCH* SPRING 47.3653 -110.9074 19N 06E 29 3820 82/05833 BELT CREEK* 47.3636 -110.9056 18N 06E 12 ABDA 827/03 92.06330 BELT CREEK* 47.3636 -110.9056 18N 06E 12 ABDA 827/03 92.06330 10.2030 9.5 560 7.42 62 3.9 206330 8ELT CREEK* 47.3753 -110.9827 19N 06E 26 DBBA 827/03 9.27/03 9.27/03 9.27/03 9.27/03 9.27/03 9.27/03 9.27/03 9.28/0533 9.20 10.2030 9.27/03 9.27/03 9.27/03 9.27/03 9.28/0533 9.20 10.2030 9.27/03 9.27/03 9.27/03 9.27/03 9.27/03 9.28/0533 9.29/05330 9.27/03 9.27/03 9.27/03 9.27/03 9.28/05330 9.27/03 9.28/05330 9.28/05330 9.28/0533 9.29/05330 9.28/05330 9.28/05330 9.28/0533 9.29/05330 9.28/0533 9.29/05330 9.28/0533 9.29/05330 9.28/0533 9.29/05330 9.28/05330 9.28/05330 9.28/0533 9.29/05330 9.28/05330 9.28/05330 9.28/0533 9.29/05330 9.28/0533 9.29/05330 9.28/05330 9.28/0533 9.29/05330 9.28/05330 9.28/05330 9.28/0533 9.29/05330 9.28/05 | 204516 JIM LARSON 47,3651 -110,9484 19N 06E 34 ACDC 3926 196 9/24/03 12,65 279,53 10 233,6 8,57 233,6 8,57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47,3757 -110,927 19N 06E 26 3600 8/19/03 2919/03 204710 8ELT CREEK * 60 F TOWN WELL #2 47,3812 -110,927 19N 06E 26 3600 9/19/03 20,98 460 7.48 253 8,28 205653 JOHN HARRIS RANCH * SPRING 47,3636 -110,9974 19N 06E 28 3920 8/19/03 9.5 560 7.42 62 3.9 205653 BELT CREEK 47,3636 -110,9974 19N 06E 28 3920 8/27/03 9.5 560 7.42 62 3.9 205639 8ELT CREEK 47,3636 -110,9974 19N 06E 28 3920 8/27/03 9.5 560 7.42 62 3.9 3.9 205639 8ELT CREEK 47,3636 -110,9258 19N 06E 26 DDDA 8/27/03 8/27/03 117,9 297 7.79 510 297 20539 8ELT CREEK 47,3636 -110,9258 19N 06E 26 DDDA 8/27/03 8/27/03 19.2 372 7.48 513 206358 BONNIE ZANTO 47,4788 -110,9288 19N 06E 26 DBCB 3530 8/27/03 8/27/03 8/27/03 19.2 372 7.48 513 206358 PLEASENT VALLEY COLONY 47,3784 -110,9281 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 7.55 137 1.5 8.03 207258 BRUCE KEASTER 47,4033 -110,9754 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207669 BRUCE KEASTER 47,4033 -110,9754 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.8 | 204710 | 205508 | 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205636 BELT CREEK 47.3636 -110.9183 18N 06E 26 DDDA 8/27/03 97.2 17.9 297 7.79 510 205639 BELT CREEK 47.3636 -110.9183 18N 06E 26 DDDA 8/27/03 97.2 18.4 371 7.22 512 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDBA 8/27/03 8/27/03 97.2 18.4 371 7.22 512 205639 BONNIE ZANTO 47.4478 -110.9253 18N 06E 26 DBBA 8/27/03 97.2 13.1 799 6.82 190 0 14.6 20564 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 206360 FRANK BALITOR 47.3784 -110.9834 19N 06E 29 ACBB 3770 72
8/21/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.3807 -110.9566 18N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207286 BRUCE KEASTER 47.303 -110.9755 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 827/03 17.9 297 7.79 510 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 18.4 371 7.22 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDBA 827/03 19.2 372 7.48 513 206356 BONNIE ZANTO 47.4378 -110.928 19N 06E 35 DCDB 820 11/27/02 206360 FRANK BALITOR 47.3788 -110.9288 19N 06E 26 DBCB 3530 11/27/02 206544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207266 NELSON ROGER 47.292 -111.0247 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9566 18N 06E 3 BCAD 4060 56.3 8/24/03 25.69 BRUGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 821/03 19.2 372 7.48 513 205358 BONNIE ZANTO 47.4478 -110.9253 18N 06E 26 DBAA 827/03 97.2 13.1 789 6.82 190 0 14.6 20554 | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/16/03 28 29.9 10.3 476 7.27 237 0 7.92 207490 GARY CROWDER 47.3676 -110.9031 19N 06E 36 ACAA 3560 40 10/21/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3637 -110.9809 19N 06E 32 AAD 3860 5/27/03 20.7 8.19 74.6 5.4 209510 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.3699 -110.9896 19N 06E 29 C 3840 5/28/03 14.4 835 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9814 19N 06E 29 C 3820 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 18.7 512 7.91 40.3 | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/19/03 28 29.9 10.3 476 7.27 237 0 7.92 207498 JIM LARSON SPRING 3 47.3676 -110.9809 19N 06E 32 AAD 3860 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.369 -110.9886 19N 06E 29 C 3840 5/28/03 18.4 805 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3820 5/28/03 14.4 805 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 18.7 512 7.91 40.3 209517 JIM LARSON S-1 47.3583 -110.9819 19N 06E 29 DCAA 3800 5/27/03 21.6 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 18 878 7.65 106 | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/19/03 28 29.9 10.3 476 7.27 237 0 7.92 207498 JIM LARSON SPRING 3 47.3678 -110.9809 19N 06E 32 AAD 3860 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9806 19N 06E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 209514 JOHN HARRIS S-9 47.369 -110.9896 19N 06E 29 C
3840 5/28/03 14.4 825 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3840 5/28/03 14.6 775 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 32 CDCB 3700 5/30/03 18.7 512 7.91 40.3 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 32 DBB 3840 5/27/03 18 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.355 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3760 9/19/03 28 29.9 10.3 476 7.27 237 0 7.92 207498 JIM LARSON SPRING 3 47.3675 -110.9809 19N 06E 32 AAD 3860 5/27/03 28 29.9 10.3 476 7.27 237 0 7.92 209498 JIM LARSON SPRING 2 47.3587 -110.9809 19N 06E 32 AAD 3860 5/27/03 18.8 800 8.22 105.5 8.9 208514 JOHN HARRIS S-9 47.369 -110.9896 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9817 19N 06E 29 C 3820 5/29/03 14.6 775 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9821 19N 06E 32 DAB 5/209517 JIM LARSON S-1 47.3583 -110.9891 19N 06E 32 DBB 3840 5/27/03 18.7 512 7.91 40.3 209526 PLEASANT VALLEY COLLONY S-RING 47.3777 -110.9829 19N 06E 32 DCA 3800 5/27/03 18.7 574 8.58 141 6 209527 PLEASANT VALLEY COLLONY S-4 47.355 -110.9706 19N 06E 33 BD 3910 5/27/03 18.1 574 8.58 141 6 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 38 ACAD 3880 27.5 10/21/03 BRUCE KEASTER 47.3683 -110.0247 19N 06E 38 ACAD 3880 27.5 10/21/03 | 207767 HARRIS JOHN * PONO GARY CROWDER JAMES AND SPRING 3 HORS AND SPRING 2 HORS AND SPRING 3 HORS AND SPRING 4 HORS AND | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3780 9/19/03 28 29.9 10.3 476 7.27 237 0 7.92 20780 209500 JJM LARSON SPRING 3 47.3637 -110.9816 19N 06E 32 AAD 3660 5/27/03 209500 JJM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.369 -110.9816 19N 06E 29 C 3840 5/28/03 14.4 835 7.9 76 8.3 209515 JOHN HARRIS S-9 47.369 -110.9816 19N 06E 32 DAA 4020 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/28/03 18.7 512 7.91 40.3 209516 209527 PLEASANT VALLEY COLONY SPRING PLEASANT VALLEY COLONY SPRING 47.3653 -110.9901 19N 06E 32 DBB 3840 5/27/03 18.8 87.6 5 108 209527 ROGEN REJSON 47.2901 -111.0247 18N 06E 19 CCCD 4160 4/9/04 210402 BRUCE KEASTER 47.3683 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 10.9103 8.93 1085 7.73 234 20 7.8 21233 MURPHY, LARRY JIM SINDER 47.3968 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 10.9103 8.93 1085 7.73 234 20 7.8 212338 MURPHY, LARRY JIM SINDER 47.3968 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.75 10.9 8.8 801 7.43 173 5 8.1 8.1 5144 51.8 514 51.8 | 207767 HARRIS JOHN * PONO 47.37 -110.9918 19N 06E 29 3780 9/19/03 28 20.99 10.3 47.37 192 7.73 207930 GARY CROWDER 47.3878 -110.9931 19N 06E 32 AAA 3860 40 10/21/03 28 20.99 10.3 476 7.27 237 0 7.92 10.000 100 100 100 100 100 100 100 100 | 207767
 | 207767 GARY CROWDER 47.367 -110.9918 19N 08E 29 |
| 200617 FRENCH COULEE* HIGHWAY DRAIN 47.372 110.0265 180 66E 20 CODA 366 117.000 151 400 67 42 110.5 100.000 170 151 400 67 42 110.5 100.000 170 | 200917 FRENCH-COULEE* HIGHWAY DRAIN 47.3722 -110.0285 18N 60E 20 CODA 3660 77.7733 91.903 | 200917 FRENCH-COULEE* HIGHWAY DRAIN 47.3722 -110,0265 184 062 20 CDCA 3600 -20 CDCA -20 | 200817 FRENCH-COLLEE* HIGHWAY DRAIN 47.3722 -110.0265 100 062 20 CODA 3600 24.2404 12.18 36.00 8.16 32.2 12.1 200917 FRENCH-COLLEE* HIGHWAY DRAIN 47.3722 -110.0265 100 062 20 CODA 3600 0.15 000 0.15 | 200960 | 201696
 | 201473 GLENMCCIELAND 47.374 -110.9282 110.9282 120.9287 201470 20147 | 202346 | 203450 DPER BOX ELDER CREEK *LARSON PPER BOX ELDER CREEK | 203450 PARCH LIPER BOX ELDER CREEK 'LARSON A7.3566 110.9666 19N 06E 32 3840 6177/03 18.2 400 7.89 288 7.81 | 203450 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9896 19N 06E 32 3840 617/03 18.2 400 7.89 299 7.81 203450 203450 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9896 19N 06E 32 3840 77/17/03 15.6 620 7.85 253 7.63 203450 203450 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 15.6 620 7.85 253 7.63 203450 203450 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 8.7 620 7.56 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 8.7 620 7.56 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 8.7 620 7.56 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 8.7 620 7.58 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 -110.9898 19N 06E 32 3840 91803 8.7 620 7.58 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 110.9898 19N 06E 32 3840 91803 8.7 620 7.58 245 9.13 203451 UPPER BOX ELDER CREEX *LARSON A7.3596 110.9898 19N 06E 23 3440 47.5504 33 650 7.71 66 0.85 63 640 7.71 66 0.85 63 640 7.71 66 0.85 63 640 7.71 66 0.85 63 63 640 7.71 66 0.85 63 63 63 640 7.71 66 0.85 63 63 63 63 63 63 63 6 | 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK
LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LARSON 203450 UPPER BOX ELDER CREEK LABON 203450 UPPER BOX ELDER CREEK LABON 203450 UPPER BOX ELDER CREEK LABON 203450 | 203450 UPPER BOX ELDER CREEK * LARSON A7.3586 - 110.8686 19N 06E 32 3840 811903 8.7 620 7.55 253 7.83 | 203450 UPPER BOX ELDER CREEK* LARSON A7.3586 -110.9888 19N 05E 32 3840 10/23/03 8.7 620 7.58 245 9.13 203450 UPPER BOX ELDER CREEK* LARSON A7.3586 -110.9888 19N 05E 32 3840 4/25/04 13 650 7.71 60 6.95 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELDER CREEK * LOWER BOX ELDER CREEK | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH A7.3779 -110.9856 19N 06E 29 3745 8/17/03 23.3 395 8.15 286 7.88 | LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH 37.3770 -110.9856 19N 06E 20 3745 4/25/04 17 570 8.67 288 14.3 2045/16
2045/16 2 | 204516 20 | 204516 JIM LARSON A7.3651 -110 9484 19N 06E 34 ACDC 3926 19.6 69/24/03 12.65 278.85 2 | 204710 SELT MT SEEP ON LETS IDE OF HIGHWAY DRAIN* SEEP ON LETS IDE OF HIGHWAY DRAIN* A | 205508 | 205653 JOHN HARRIS RANCH * SPRING 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205636 BELT CREEK 47.3636 -110.9163 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 205636 BELT CREEK 47.3636 -110.9163 18N 06E 26 DDDA 8/27/03 17.9 297 7.79 510 205639 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBAA 8/27/03 8/27/03 19.2 37.2 7.48 513 206356 FRANK BALITOR 47.3788 -110.924 20N 06E 35 DCD6 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 205644 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY
47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3507 -110.9566 18N 06E 3 BCAD 4060 56.3 8/24/03 25.69 BRUGE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/24/03 25.69 BRUGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.58 11.1 120 7.21 310 4.9 2.82 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.58 11.1 18.3 10.02 606 8.92 78 2.82 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.58 11.1 18.3 10.02 606 8.92 78 2.82 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 57/04 118.58 11.1 18.3 10.02 606 8.92 78 2 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 627/03 8/27/03 118.4 371 7.22 512 8/27/03 8BLT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 8/27/03 18.4 371 7.22 512 8/27/03 97. | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 8ELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 827/03 87.27 7.48 513 206358 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCDB 3490 202 8/20/03 97.2 13.1 789 6.82 190 0 14.6 7.20 208544 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 265 8/22/03 175.55 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207258 NELSON ROGER 47.326 -111.0247 18N 06E 19 CCCA 4150 60 4/8/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9566 18N 06E 3 BCAD 4080 56.3 8/24/03 25.69 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 992 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 4/25/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.58 11.1 220 7.21 310 4. | 209498 | 209498 JIM LARSON SPRING 3 47.3637 -110.8809 19N 06E 32 AAD 3860 527703 20.7 8.19 74.6 5.4 209500 JIM LARSON SPRING 2 47.3587 -110.8916 19N 06E 32 DAA 40.20 527703 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.3699 -110.9896 19N 06E 29 C 3840 5729/03 14.4 835 7.8 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.98914 19N 06E 29 C 3820 5728/03 14.4 835 7.8 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 200518 2005 | 209498
 | 209498 | 209498 | 209498 | 209498 | 209498 JM LARSON SPRING 3 47,3837 -110,9806 19N 06E 32 AAD 3860 5/27/03 20.7 8,19 74.6 5.4
 | 2095046 Jim Larson Spring 3 |
| 200917 FRENCH COULEE F HIGHWAY DRAIN 47,972 110,926 100 00 00 00 00 00 00 | 200917 FRENCH COULEE **HIGHWAY DRAIN 47.722 **.119.0261 189 662 20.000 350 0 191.020 191.02 1 | 200917 | 200917 FRENCH COLLEE* HIGHWAY DRAIN 47.3722 110.0265 110 | 200906
 | 20169 ANY OGLE 473-94 -110-947 10 000 1 000 1 010 10 | 201479 GLENNICCELANO 47.3774 -110.8252 10.0 66 28 CACA 3.540 50.6 68 69193 20.5 22 10.0 68 20.0 20.0 2.0 6.0 2.1 10.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 68 20.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2. | 202345 DANN HARDINGER 47.324 -110.0747 47.405 -110.0865 180 06E 32 3840 52803 19 675 8.1 240 7.32 7.22 7.32 7.53 7.5 | 200450 DPER BOX ELDER CREEK *LARSON BANCH A7.3586 -110.0868 19N 06E 32 3840 5.2803 18.2 400 7.89 200 7.81 200 7 | 203450 PANCH 47.3586 -110.8868 19N 06E 32 3840 617.03 19.2 400 7.89 298 7.81
 | UPPER BOX ELDER CREEK *LARSON 47.3586 -110.9866 | 203460 UPPER BOX ELDER CREEK *LARSON A7.3566 -110.9686 19N 05E 32 3840 717703 | 203450 UPPER BOX ELDER CREEK * LARSON 203450 UPPER BOX ELDER CREEK * LARSON 47.3586 -110.9866 19N 05E 32 3840 9/19/03 8.7 620 7.55 245 9.13 | Depart Roy Elder Creek LARSON 47.3586 -110.8888 19N 06E 32 3840 918003 8.7 620 7.5 245 8.13 | LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH LOWER BOX ELIDER CREEK * BELOW J HARRIS RANCH * 110.845 1 110.845 1 180 86 29 3745 8 472504 177 570 8.67 288 14.3 3 395 8.15 286 7.68 14.3 3 305 8.15 286 7.68 14.3
3 305 8.15 286 7.68 14.3 3 305 8.15 286 7.68 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH * SPRING JOHN NAME * A CDC * A | LOWER BOX ELDER CREEK * BELOW J 47.3776 110.9856 19N 06E 29 374.5 4/2504 11/2702 12.9 8.1 17 570 8.67 288 14.3 204516 3/14.3 | 204516 JIM LARSON | 204516 JIM LARSON 47,3651 -110,9484 180 06E 34 ACDC 3926 19 6 97,403 12,65 279,53 10 526 7,46 233,6 8.57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* SEEP ON LEFT SIDE OF HIGHWAY DRA | 204710 204710 204710 204710 205508 204710 205508 205623 20 | 205508 SELT CREEK 'E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 8/20103 10 250 20 400 7.48 253 8.28 205653 JOHN HARRIS RANCH 'S PRING 47.3636 -110.9056 18N 06E 29 3920 10/23/03 9.5 560 7.02 234 4.29 205836 3.20 3.9
 3.9 3.0 3.9 3.0 3.9 3.0 3.9 3.0 3.9 3.0 3.9 3.0 3.9 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 205653 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 18.4 371 7.22 512 18.4 371 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA BELT CREEK 47.3808 -110.9253 18N 06E 26 DBAA BELT CREEK 47.3808 -110.9258 18N 06E 26 DBAA BELT CREEK 47.3808 -110.9258 18N 06E 26 DBAA BELT CREEK 47.3808 -110.9258 18N 06E 26 DBCB 3200 97.2 13.1 789 6.82 190 0 14.6 180.0 110.0 | 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 05E 32 DAA 4020 5/27/03 18.8 600 6.22 105.5 6.9 105.5 10.0 | 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 527/03 18.8 800 6.22 105.5 6.9 209514 JOHN HARRIS S-9 47.3699 -110.9898 19N 06E 29 C 3840 5729/03 14.4 835 7.9 76 8.3 209515 JOHN HARRIS S-8 47.3699 -110.9814 19N 06E 29 C 3820 5729/03 14.6 775 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 32 DCB 3700 5730/03 18.7 512 7.91 40.3 209517 JIM LARSON S-1 47.3583 -110.9819 19N 06E 32 DBB 3840 5727/03 21.6 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777
-110.9829 19N 06E 29 DCAA 3800 5727/03 18 878 7.65 106 108 1 | 209500 JJM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 527/03 18.8 800 6.22 105.5 6.9 209514 JOHN HARRIS S-9 47.3699 -110.9898 19N 06E 29 C 3840 5/29/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9891 19N 06E 32 DCB 3700 5/30/03 18.7 512 7.91 40.3 209517 JJM LARSON S-1 47.3583 -110.9891 19N 06E 32 DBB 3840 5/27/03 21.6 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 18 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.355 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 | 209500 JJM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 527/03 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.3699 -110.9898 19N 06E 29 C 3840 5729/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND 47.4348 -110.9827 19N 06E 3 CDB 3700 5730/03 18.7 512 7.91 40.3 209517 JJM LARSON S-1 47.3583 -110.9891 19N 06E 32 D8B 3840 5727/03 21.6 798 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5727/03 16 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.355 -110.9706 19N 06E 39 BB 3840 5727/03 18.1 574 8.58 141 6 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 39 BB 3840 5727/03 18.1 574 8.58 141 6 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 39 BB 3840 5727/03 18.1 574 8.58 141 6 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 38 BD 3910 5727/03 18.1 574 8.58 141 6 209592 ROGER NELSON 47.2901 -110.9024 19N 06E 38 ACAD 3580 27.5 10/21/03 | 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 05E 32 DAA 4020 527/03 18.8 800 6.22 105.5 6.9 10.9816 19N 05E 29 C 3840 5729/03 14.4 835 7.9 76 8.3 209515 209516 EDWARD GOO POND JIM LARSON S-1 47.3583 -110.9821 19N 05E 3 2086 3700 5730/03 18.7 512 7.91 40.3 209526 209527 209526 209527 209527 209527 209528 209528 209528 209529 20 | 209500 JJM LARSON SPRING 2 47.3587 -110.9816 19N 05E 32 DAA 4020 527/03 18.8 800 8.22 105.5 8.9 209515 JOHN HARRIS S-9 47.3699 -110.9914 19N 05E 29 C 3840 5729/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND JJM LARSON S-1 47.3583 -110.9914 19N 05E 3 CDC8 3700 5730/03 18.7 512 7.91 40.3 209517 JJM LARSON S-1 47.3583 -110.9891 19N 05E 32 DBB 3840 5727/03 21.6 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLLONY SPRING 47.3777 -110.9829 19N 05E 29 DCAA 3800 5727/03 21.6 799 8.22 82.3 7.5 209527 PLEASANT VALLEY COLLONY S-4 47.355 -110.9706 19N 05E 32 DBB 3840 5727/03 18.1 574 8.58 141 6 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9054 19N 05E 38 ACAD 3580 27.5 10/21/03 48/04 8.83 484 7.02 224 0 2.22 210402 BRUCE KEASTER 47.3683 -110.9024 19N 05E 38 ACAD 3580 27.5 10/21/03 48/04 8.83 484 7.02 224 0 2.22 210533 MARRY EVANS 47.3126 -110.9951 18N 05E 17 CAAD 4390 90 7/29/04 25.77 38.01 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 05E 17 CAAD 4390 90 7/29/04 25.77 38.01 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 05E 17 CAAD 4390 90 7/29/04 25.77 38.01 10.9 1889 6.86 64 27.8 107 8.11 10.9 11.0 10.9 11.0 10.9 1.0 10 | 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 5/27/03 16.8 600 6.22 105.5 6.9 209515 JOHN HARRIS S-6 47.3696 -110.9896 19N 06E 29 C 3840 5/28/03 14.4 835 7.9 76 8.3 209516 EDWARD GOO POND JIM LARSON S-1 47.3583 -110.9891 19N 06E 29 DCAA 3800 5/27/03 18.7 512 7.91 40.3 9
209527 209526 PLEASANT VALLEY COLLONY S-4 47.3583 -110.9829 19N 06E 29 DCAA 3800 5/27/03 16 876 7.65 106 209527 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/67/04 25.77 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/67/04 25.77 210533 MIRPHY LARRY 47.3066 -110.951 19N 06E 22 BDD8 3600 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 212533 MIRPHY LARRY 47.4043 -110.8911 19N 06E 22 BDD8 3600 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 213586 PLEASANT VALLEY SPRING OLD HARRIS 47.4316 -110.9951 19N 06E 25 C 3730 3765 380 3760 3 | 209500 JJIM LARSON SPRING 2 47.3857 -110.9816 19N 06E 32 DAA 4020 527/03 18.8 800 8.22 105.5 8.9 209514 JOHN HARRIS S-9 47.3859 -110.9886 19N 06E 29 C 3840 528/03 14.6 77.5 8.01 103 9 209515 JOHN HARRIS S-8 47.3859 -110.9891 19N 06E 29 C 3820 528/03 14.6 77.5 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 32 D86 3840 527/03 18.7 512 7.91 40.3 209526 PLEASANT VALLEY COLLONY S-4 47.355 -110.9891 19N 06E 32 D86 3840 527/03 16 87.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.3653 -110.9706 19N 06E 32 D86 3840 527/03 16 878 7.65 106 209527 ROGEN RISSON 47.2901 -111.0247 18N 06E 19 CCCD 4150 44904 8.83 484 7.02 224 0 2.22 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 19 CCCD 4150 44904 8.83 484 7.02 224 0 2.22 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.77 8.61 10.91 7.51 90.8 10 9.03 210555 JIM SNIDER 47.3968 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.77 8.61 10.91 7.51 90.8 10 9.03 210555 JIM SNIDER 47.3968 -110.9951 18N 06E 17 CAAD 4390 90 7/28/04 25.77 8.61 8.61 866 7.26 107 8.14 212233 MURPHY, LARRY JIM SNIDER 47.4043 -110.961 19N 06E 28 DDDB 3635 29 57/04 12.5 10.8 10.8 10.8 17.43 173 5 8.1 10.8 10.8 10.8 10.8 10.8 10.8 10.8 | 209500 JIM LARSON SPRING 2 47.3587 -110.9816 19N 06E 32 DAA 4020 527/03 18.8 600 8.2 105.5 6.9 |
| | 200917 FRENCH COULCE + HIGHWAY DRAM 47,7722 - 119,8265 184 662 20 CDA 3500 350 19,100 10,00 | 200917 FRENCH COULEE* HIGHWAY DRAMN 47,372 -110,285 110, 85 121 121 120 121 121 120 120 | 200917 FRENCH COLLEE + HIGHWAY DRAIM | 200960
 | 201696 RAY OCLE 47346 110,6475 181 06 15 0RAC 4606 1 0RAC 4706 1 0RAC 4706 1 0RAC 4706 1 0RAC 4707 4708 | 201470 CALLERY OF | 202549 DANY HARDINGER 47 3241 -1108747 180 60E 8 COCA 4246 0 5 m900 3.4 46 7.58 300 0 2 8.49 | 202545 GENE ERBETTA MPPER SOX ELDER CREEK *LARSON LOPER BOX ELDER CREEK *LARSON LOPE | 203450 PARCH PRES BOX ELDER CREEK *LARSON RANCH 47.3586 -110.6868 19N 06E 32 3840 67.7703 182 400 7.89 269 7.81 | 200450 UPPER BOX ELDER CREEK * LARSON RANCH 47.3586 -110.9866 19N 06E 32 3840 811703 18.2 400 7.89 286 7.81 7.83
7.83 | 200440 | UPER BOX ELDER CREEK 'LARSON 47.3595 -110.9868 19N 06E 32 3840 91.903 156 620 7.58 253 7.69 20340 20340 UPER BOX ELDER CREEK 'LARSON 47.3596 -110.9868 19N 06E 32 3840 91.903 8.7 620 7.58 245 9.13 20340 UPER BOX ELDER CREEK 'LARSON 47.3596 -110.9868 19N 06E 32 3840 47.500 0.3 660 7.71 60 0.55 0.5 | 203450 UPPER BOX ELDER CREEK LARSON 47,3586 -110,9886 19N OSE 22 3840 10/23/03 8,7 620 7,58 245 9,13 203450 UPPER BOX ELDER CREEK LARSON 47,3586 -110,9886 19N OSE 22 3840 47,3570 10/23/03 9,3 660 7,71 66 6,65 6 6 6 6 6 6 6 6 6 | 203451 2 | LOWER BOX ELIDER CREEK * BELIOW]
 | LOWER BOX ELDER CREEK * BELOW J HARRIS RANCH * \$73779 | 204516 JIM LARSON JIM LAR | 204816 JIM LARSON OSTERMAN QARIN AND NOEL 47.3766 -110.9095 19N 06E 34 ACDC 3252 16 6 82.403 12.65 278.85 278.85 11.31 526 7.46 233.6 8.57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT 47.3757 -110.927 19N 06E 26 3600 81/9/03 8ELT CREEK 47.3757 -110.927 19N 06E 26 3600 81/9/03 10.4 3510 7.4 210 9.11 204710 8ELT AMT 47.3757 -110.927 19N 06E 26 3600 81/9/03 8ELT CREEK 47.3808 -110.9974 19N 06E 26 3800 81/9/03 10.4 3510 7.4 210 9.11 320 3 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT CREEK * EO F TOWN WELL #2 205653 205653 205653 JOHN HARRIS RANCH * SPRING BELT CREEK 47.3652 -110.927 18N 06E 26 3800 8/19/03 10.4 3510 7.4 210 8.18 8.28 8.28 8.28 205653 205653 JOHN HARRIS RANCH * SPRING BELT CREEK 47.3653 -110.9974 18N 06E 29 3820 10/23/03 9.5 660 7.02 234 4.29 3.99 205636 BELT CREEK 47.3656 BELT CREEK 47.3656 -110.9056 18N 06E 12 ABDA 8/27/03 BELT CREEK 47.3653 -110.9974 18N 06E 26 DDDA 8/27/03 BELT CREEK 47.3656 BELT CREEK 47.3763 -110.9056 18N 06E 12 ABDA 8/27/03 BELT CREEK 47.3763 -110.9056 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9258 BELT CREEK 47.3768 -110.9251 BN 06E 26 DDDA 8/27/03 BRIJOR B | 205508 BELT CREEK 'E OF TOWN WELL #2 J-110.9257 19N OBE 26 3520 8/20/03 20.9 460 7.48 253 8.28 20.5653 JOHN HARRIS RANCH 'S PRING 47.3653 -110.9974 19N OBE 29 3920 10/23/03 9.55 50 7.42 62 23.9 20.5653 JOHN HARRIS RANCH 'S PRING 47.3656 -110.9056 18N OBE 29 3920 10/23/03 9.55 50 7.42 62 23.9 20.5653 BELT CREEK 47.3636 -110.9056 18N OBE 26 DDDA 8/27/03 9.55 50 7.42 62 23.9 9.5 50 7.49 62 20.5638 BELT CREEK 47.3636 -110.9056 18N OBE 25 DDDA 8/27/03 9.55 50 7.42 62 23.9 9.5 50 7.49 62 20.5638 BELT CREEK 47.3636 -110.9058 18N OBE 25 DDDA 8/27/03 9.7 20.5638 BELT CREEK 47.3636 -110.9253 18N OBE 25 DDDA 8/27/03 9.7 20.5638 BELT CREEK 47.3636 -110.9253 18N OBE 25 DDDA 8/27/03 9.7 20.5638 BONNIE ZANTO 47.4478 -110.924 20N OBE 35 DCDB 3490 202 8/20/03 97.2 13.1 789 8.82 190 0 14.6 513 | 205653
 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 627/03 18. | 205836 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 827/03 827/03 97.2 18.4 371 7.22 512 19.2 372 7.48 513 19.2 3 | 209515 JOHN HARRIS S-8 47.3699 -110.9814 19N 06E 29 C 3820 5728/03 14.6 775 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 18.7 512 7.91 40.3 | 209515 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3820 572903 14.6 775 8.01 103 9 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDC8 3700 573003 18.7 512 7.91 40.3 209517 JIM LARSON S-1 47.3583 -110.9891 19N 06E 32 DBB 3840 572703 21.6 799 6.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9892 19N 06E 29 DCAA 3800 572703 18 6 78 7.65 106 | 209515
 | 209515 | 209515 | 209515 | 209515 | 209515
 | 209515 JOHN HARRIS S-8 47.3699 -110.9914 19N 06E 29 C 3820 5/29/03 14.6 775 8.01 103 9 9 209516 EDWARD GOO POND 47.4348 -110.96297 19N 06E 3 CDCB 3700 5/20/03 216. 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 16 878 7.65 108 209527 PLEASANT VALLEY COLONY S-4 47.365 -110.9901 19N 06E 29 DCAA 3800 5/27/03 16 878 7.65 108 209527 PLEASANT VALLEY COLONY S-4 47.365 -110.9906 19N 06E 33 8D 3910 5/27/03 16 878 7.65 108 209527 PLEASANT VALLEY COLONY S-4 47.365 -110.9906 19N 06E 33 8D 3910 5/27/03 16 878 7.65 108 209527 PLEASANT VALLEY COLONY S-4 47.3683 -110.9901 19N 06E 39 PCCD 4160 4/9/04 8.83 484 7.02 224 0 2.22 200402 BRUCE KEASTER 47.3683 -110.9901 19N 06E 38 ACAD 3580 27.5 10/21/03 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/29/04 25.77 32.4 8.17 1019 7.51 90.8 10 9.03 213386 JIM SNIDER 47.3986 -110.951 19N 06E 22 BDD8 3890 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 212233 MURPHY, LARRY JIM SNIDER 47.484 -110.9604 20N 06E 33 DDB 3635 29 5/7/04 12.5 8.93 1085 7.73 234 20 7.8 213598 PLEASANT VALLEY SPRING *OLD HARRIS HOMESTEAD 47.4318 -110.9916 19N 06E 21 BDD 3800 5/28/03 1085 7.73 234 20 7.8 214078 JIM DAWSON 47.3956 -110.9931 19N 06E 21 BDD 3800 5/28/03 10.8 10.8 22.50 9.71 381 9.36 214078 JIM DAWSON 47.3956 -110.9931 19N 06E 21 BDD 3800 5/28/03 5/28/03 10.8 10.8 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 |
| | 200977 FRENCH COULEE* **INGHAWAY DRAIN 47.3722 | 200017 FRENCH COULEE HIGHWAY DRAM 47,772 110,826 180 60 20 CDCA 366 190,000 180,000 | 200077 FRENCH COULEE* HIGHWAY DRAIM | 200916 FRENCH COLLEE* HIGHWAY PRAIN 47,3722 110,0255 10,0 6 20 CDA 3500 97,002 131,02 132 20
132 20 132 | 201696 | 201979 CHEMBORGACHAPSONUM 47,3774 110,2782 110,0787 11 | 202549 DAINY HARDINGER 47 324 -110 874 18 N 06E 8 CDCA 4240 0 5 PRIOS 3.4 46 7.8 500 10.3 0 0 0 0 0 0 0 0 0 | 202545 | 200450 PPER BOX ELDER CREEK 'LARSON RANCH 47,3596 -110,0666 19N 06E 32 3840 67,7703 182 400 7,89 266 7,81
 | 200450 UPPER BOX ELDER CREEK * LARSON A7.3596 -110.8889 19N 06E 32 3840 01703 18.2 400 7.89 296 7.81 200450 UPPER BOX ELDER CREEK * LARSON A7.3596 -110.8889 19N 06E 32 3840 01903 15.8 620 7.85 253 7.83 200450 UPPER BOX ELDER CREEK * LARSON A7.3596 -110.8889 19N 06E 32 3840 01903 15.8 620 7.85 253 7.83 200450 UPPER BOX ELDER CREEK * LARSON UPPER BOX | 200450 UPPER BOX ELDER CREEK - LARSON A7.3586 - 110 9868 19N 06E 32 3840 8/1903 15.6 620 7.85 253 7.83 200450 UPPER BOX ELDER CREEK - LARSON A7.3586 - 110 9868 19N 06E 32 3840 8/1903 15.6 620 7.85 245 8.13 200450 UPPER BOX ELDER CREEK - LARSON A7.3586 - 110 9868 19N 06E 32 3840 9/1803 8.7 620 7.85 245 8.13 200450 UPPER BOX ELDER CREEK - LARSON A7.3586 - 110 9868 19N 06E 32 3840 9/1803 8.7 620 7.85 245 8.13 200450 200450 UPPER BOX ELDER CREEK - LARSON A7.3586 - 110 9868 19N 06E 32 3840 4/2504 13 633 8.46 266 12.8 4/2504 | UPPER BOX ELDER CREEK *LARSON UPPER | 203450 UPPER BOX ELDER CREEK* LARSON 47.3596 -110.9868 19N 05E 32 3840 97.903 8.7 620 7.58 245 8.13 | 20M51 LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 52803 24.5 880 8.2 236 5.73 20451 LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 91703 223.3 365 8.15 286 7.68 204516 LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH 47.3779 -110.9856 19N 06E 29 3745 91703 223.3 365 8.15 286 7.68 204516 JIM LARSON 47.3851 -110.9444 19N 06E 34 ACDC 326 19.6 19.2702 12.9 8.1 32.04516 JIM LARSON 47.3851 -110.9444 19N 06E 34 ACDC 326 19.6 024.03 12.5 11.31 526 7.46 233.6 8.57 204516 204516 JIM LARSON 47.3851 -110.9454 19N 06E 26 3600 3770 3811 11/2502 278.85 279.53 10 528 7.45 233.6 8.57 7.45 7.4 | 203451 LOWER BOX ELDER CREEK* 9ELOW J HARRIS RANCH 47 3779 -110,885 19N 06E 29 3745 87 1703 23 3 395 8.15 286 7.88 203451 LOWER BOX ELDER CREEK* 9ELOW J 47 3779 -110,885 19N 06E 29 3745 204516 JIM LARSON 47 3551 -110,948 19N 06E 34 ACDC 3260 19.6 110,2702 12 9 -110,270
12 9 -110,270 | LOWER BOX ELDER CREEK * BELOW J | 204516 JIM LARSON JIM LAR | 204516 JM LARSON A7,365 -110,9484 16N 06E 36 ACDC 3926 16 6 R2403 12.65 279.53 11.31 520 7.46 233.6 8.57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN BELT MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN 47,3757 -110,927 19N 06E 26 3600 371/7/03 381 11/26/02 278.65 279.53 10 7.46 233.6 8.57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN 47,3757 -110,927 19N 06E 26 3600 9/19/03 20.99 460 7.48 253 25.20 205605 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 8ELT MT | 205508 BELT CREEK * E OF TOWN WELL #2 47.3812 -110.9257 19N 06E 28 3920 87.2073 10 560 7.42 253 8.28 205653 2JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 28 3920 87.2073 9.5 560 7.42 62 234 4.29 3.9 | 205653 JOHN HARRIS RANCH * SPRING 47.3663 -110.9974 19N 06E 29 3920 8/1903 10/23/03 9.5 560 7.02 234 4.28 205653 2058563 BELT CREEK 47.3663 -110.9974 19N 06E 29 3920 8/1903 10/23/03 9.5 560 7.02 234 4.28 205836 BELT CREEK 47.3763 -110.9183 18N 06E 26 DDDA 8/27/03 8/27/03 18.4 371 7.22 512 205836 BELT CREEK 47.3863
-110.928 18N 06E 26 DDBA 8/27/03 8/27/03 18.4 371 7.22 512 205836 BONNIE ZANTO 47.4478 -110.924 20N 06E 35 DCD6 3490 202 8/20/03 97.2 13.1 789 8.82 190 0 14.6 2005360 EASTER 47.3764 -110.928 19N 06E 26 DBBA 2005360 EASTER 47.3764 -110.928 19N 06E 29 ACBB 3770 72 527/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207256 BURGE EXPLORATION ACM WELL 47.3567 -110.9794 19N 06E 29 DAAA 3860 186 4725/03 47.3767 207662 BURGE EXPLORATION ACM WELL 47.3767 207690 EASTER 47.3567 2110.9916 19N 06E 29 DAAA 3860 166 4725/03 2074 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 8/27/03 117.9 287 7.79 510 205836 BELT CREEK 47.3753 -110.9056 18N 06E 26 DDDA 8/27/03 8/27/03 18.4 371 7.22 512 206358 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 8/27/03 8/27/03 97.2 13.1 789 6.82 190 0 14.6 206380 FRANK BALITOR 47.3788 -110.9288 19N 06E 26 DBCA 8/27/03 97.2 13.1 789 6.82 190 0 14.6 47.3788 4 -110.9288 19N 06E 26 DBCA 8/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 5/27/03 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 8/21/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207266 NELSON ROGER 47.292 -111.0247 19N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3807 -110.9866 18N 06E 3 BCAD 4080 56.3 8/24/03 25.69 BRUCE KEASTER 47.4033 -110.9775 19N 06E 16 CCB 3635 30 5/28/03 4.11 19.8 992 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 2076767 HARRIS JOHN *PONO 47.37 -110.9918 19N 06E 29 DAAA 3860 186 5/7/04 118.3 10.02 606 8.92 76 2.82 207676 HARRIS JOHN *PONO 47.3637 -110.9918 19N 06E 29 DAAA 3860 186 5/27/03 10.51 558 7.18 178 0 10.91 7.73 207630 GARY CROWDER 47.3567 -110.90918 19N 06E 29 DAAA 3860 186 5/27/03 10.51 558 7.18 178 0 10.91 7.73 207630 GARY CROWDER 47.3567 -110.90918 19N 06E 29 DAAA 3860 186 5/27/03 10.51 558 7.18 178 0 10.91 7.73 207630 GARY CROWDER 47.3567 -110.90918 19N 06E 29 DAAA 3860 186 | 205836 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 82703 8ELT CREEK 47.3380 -110.9253 18N 06E 26 DBAB 8ELT CREEK 47.3380 -110.9253 18N 06E 26 DBAB 8C7N03 8C7N03 97.2 19.2 372 7.48 513 19.2 206360 FRANK BALITOR 47.3788 -110.9288 19N 06E 26 DBAB 35.0 11/27/02 2005644 HOYER JERRY T. 47.4296 -110.9223 19N 06E 11 ABDD 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 10.7 137 7.55 137 1.5 8.03 207286 NELSON ROGER 47.292 -111.0247 18N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 RIVINE 47.3597 -110.9566 18N 06E 3 BCAD 4060 56.3 80/24/03 25.69 80/24/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3767 -110.9794 19N 06E 29 DAAA 3860 186 8/22/03 10.51 658 7.18 178 0 10.91 207676 HARRIS JOHN *PONO 47.3656 *110.9031 19N 06E 32 AAD 3860 186 527/03 209498 JJM LARSON SPRING 2 47.3557 -110.9918 19N 06E 32 AAD 3860 40 102/103 28 29.9 10.3 476 7.27 237 0 7.29 209500 JJM LARSON SPRING 2 47.3587 -110.9916 19N 06E 32 AAD 3860 40 102/103 28 29.9 10.3 476 7.27 237 0 7.92 209500 JJM LARSON SPRING 2 47.3587 -110.9916 19N 06E 32 AAD 3860 40 102/103 28 29.9 10.3 476 7.27 237 0 7.52 200500 JJM LARSON SPRING 2 47.3587 -110.9916 19N 06E 32 AAD 3860 40 102/103 28 2 | 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30/03 18.7 512 7.91 40.3 | 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 530003 18.7 512 7.91 40.3 209517 JIM LARSON S-1 47.3583 -110.9891 19N 06E 32 DBB 3840 5/27/03 21.6 799 6.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 16 878 7.65 106 | 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 5/30703 19.7 512 7.91 40.3 209517 JIM LARSON S-1 47.3583 -110.9891 19N 06E 32 DBB
3840 5/27/03 21.6 799 8.22 82.3 7.5 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 5/27/03 18 678 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 33 6D 3910 5/27/03 18.1 574 8.58 141 6 | 209516 EDWARD GOO POND | 209516 EDWARD GOO POND JIM LARSON S-1 JIM LARSON S- | 209516 EDWARD GOO POND JIM LARSON S-1 JIM LARSON S- | 209516 EDWARD GOO POND JIM LARSON S-1 JIM SNIDER JIM SNIDER JIM SNIDER JIM SNIDER PLEASANT VALLEY SPRING * 47.348 -110.991 JIM N OSE 15 CO JRS JIM SNIDER JIM SNIDER JIM SNIDER JIM SNIDER PLEASANT VALLEY SPRING * 047.4318 -110.9931 JIM N OSE 15 CO JRS JIM SNIDER PLEASANT VALLEY SPRING * 047.4318 -110.9939 JIM N OSE 5 C JRS JIM SNIDER PLEASANT VALLEY SPRING * 047.4318 -110.9939 JIM N OSE 5 C JRS JIM SNIDER JIM SNIDER RICK BECKER A7.4318 -110.9939 JIM N OSE 5 C JRS JIM DAWSON JIM
DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON JIM DAWSON | 209516 EDWARD GOO POND 47.4348 -110.9527 19N 06E 3 CDCB 3700 530703 18.7 512 7.91 40.3 7.5 209526 209527 209527 209526 209527 209526 209527 209526 209526 209527 209526 209527 209526 209527 209526 209527 209526 209526 209527 209526 209526 209527 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 209526 2 | 209516 EDWARD GOO POND 47,4348 -110,9527 19N 06E 3 20B 3840 527/03 20526 2054NT VALLEY COLONY SPRING 47,3553 -110,9891 19N 06E 29 DCAA 3800 527/03 16 878 7.65 106 20527 2 |
| | 200517 FRENCH COULEE* **INGHWY PORAM 47.3722110.2825 194. 08E 20 CDCA 3500 77.755 304 8.5 20051 200517 200517 FRENCH COULEE* **INGHWY PORAM 47.3722110.2825 194. 08E 20 CDCA 3500 47.464 8.3 36. 19. | 200017 FRENCH COLLEE* **INGAWN PORAN 47.3722 -110.806 10 | 2005077 PRENCH COLLEE + HIGHWAY DRAM 47,7722 -110,8258 184 062 20 CDA 3506 24,0464 18,0 802 20 CDA 3506 24,0464 | 200506
 | 2010996 RAYOGLE 47,346 110,6475 180 56 Co. | 201497 CHEM MCCLELMO 47,3774 110,6282 684 684 685 | 202549 DANNY HARDINGER 47,3241 -110,9787 981 06E 2 COCA 4240 0 5 m903 3.4 7.6 530 6.8 500 9 2 0.8 | 202450 GENERASTITA 47.319 110.9865 18N 06E 12 5886 3440 35 61100 0.28 13.4 446 7.88 13.3 0 | 203450 Depart BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK
 LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK LARSON LOPER BOX ELDER CREEK | 200450 UPPER BOX ELDER CREEK *LARSON 47.3596 -110.8886 19N 06E 32 3840 01703 18.2 400 7.89 296 7.91 | 200450 UPPER BOX ELDER CREEX *LARSON 47.3586 -110.8886 19N 06E 32 3840 8/1903 15 6 600 7.85 253 7.03 7. | UPPER BOX ELDER CREEK *LARSON 17.3586 -110.9886 19N 06E 32 3840 91803 15.6 620 7.85 233 7.53 7 | 200460 UPPER BOX ELDER CREEX * LARSON 47.3566 - 110.9868 19N 06E 32 3840 91.903 8.7 620 7.58 245 8.13 | 209451
209451 2 | LOWER BOX ELDER CREEK* 18ELOW J | COMPER BOX ELDER CREEK* BELOW 147.3779 -110.9855 19N 06E 29 374.5 19.6 47.5070 12.9 11.3 15.0 11.0 14.3 11.0 12.0 12.9 11.3 12.0 12.9 11.3 12.0 12.9 11.3 12.0 12. | 204516 JIM LARSON 47,3651 -110,0484 -110,005 | 204516 JJM LARSON OARIN AND NOEL STERMAN DARIN AND NOEL SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 3717/033 11.2602 278.85 279.53 10 526 7.46 233.6 8.57 204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN* 47.3757 -110.927 19N 06E 26 3600 2719/03 278.85 279.53 10 278.85 279.53 10 278.85 279.53 10 278.85 279.53 278.85 279.53 279 | 204710 SEET MT SEEP ON LEFT SIDE OF HIGHWAY DRAIN* BELT MT 47.3757 -110.927 19N 06E 26 3600 9/19/03 10.4 3510 7.4 210 9.11 205506 19C 20553 JOHN HARRIS RANCH* SPRING 47.3863 -110.9974 19N 06E 28 3920 8/19/03 10.560 7.02 234 4.29 205653 JOHN HARRIS RANCH* SPRING 47.3863 -110.9974 19N 06E 28 3920 8/19/03 10.560 7.02 234 4.29 205636 10.00
10.00 10.0 | 205608 BELT CREEK * E OF TOWN WELL #2 | 205653 JOHN HARRIS RANCH * SPRING 47.3683 -110.9974 19N 06E 29 3920 8/19/03 10/23/03 9.5 560 7.42 62 3.9 | 205836 BELT CREEK 47.3636 -110.9056 18N 06E 12 ABDA 8/27/03 17.9 297 7.79 510 18.4 371 7.22 512 205839 | 205838 BELT CREEK 47.3753 -110.9183 18N 06E 26 DDDA 827/03 827/03 97.2 19.2 512 205839 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 827/03 827/03 97.2 19.2 372 7.48 513 206356 BONNIE ZANTO 47.4478 -110.924 19N 06E 35 DCDB 3490 202 820033 97.2 13.1 789 6.82 190 0 14.5 206360 FRANK BALITOR 47.3788 -110.9268 19N 06E 26 DBCB 3530 11/27/02 205644 HOYER JERRY T. 47.4296 -110.9268 19N 06E 26 DBCB 3530 11/27/02 205644 HOYER JERRY T. 47.4296 -110.9268 19N 06E 26 DBCB 3530 11/27/02 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527/03 38.59 10 7.21 85.8 207258 PLEASENT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 827/03 38.13 38.3 10.7 137 7.55 137 1.5 8.03 207266 NELSON ROGER 47.292 -111.0247 19N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 IRVINE 47.3507 -110.9764 19N 06E 19 CCCA 4150 60 4/9/04 14.72 7.99 487 7.99 -18 0 0.52 207463 BRUCE KEASTER 47.4033 -110.9754 19N 06E 16 CCB 3635 30 528/03 4.11 1 10.8 892 7.02 75.5 3.9 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 186 8/20/03 125.4 207662 BURGE EXPLORATION ACM WELL 47.3787 -110.9794 19N 06E 29 DAAA 3860 18G 8/20/03 18.58 11.1 220 7.21 310 4.9 207672 IRVINE 47.3567 -110.9596 19N 06E 29 DAAA 3860 18G 8/20/03 18.58 11.1 220 7.21 310 4.9 2207672 IRVINE 47.3676 -110.9596 19N 06E 29 DAAA 3860 18G 8/20/03 18.58 11.1 220 7.21 310 4.9 2.82 207672 IRVINE 47.3676 -110.9596 19N 06E 29 DAAA 3860 18G 57/704 118.58 11.1 220 7.21 310 4.9 2.82 207672 IRVINE 47.3676 -110.9596 19N 06E 29 DAAA 3860 18G 57/704 118.58 11.1 220 7.27 237 0 7.92 209498 JIM LARSON SPRING 3 47.3676 -110.9806 19N 06E 29 DAAA 3860 527/03 9/39 |
 | 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.8829 19N 06E 29 DCAA 3800 527/03 16 878 7.65 106 | 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.9829 19N 06E 29 DCAA 3800 527/03 16 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 | 209526 PLEASANT VALLEY COLONY SPRING 47.3777 -110.8829 19N 06E 29 DCAA 3800 527703 16 878 7.65 106 108 109 | 209526 PLEASANT VALLEY COLONY SPRING 209527 PLEASANT VALLEY COLLONY S-4 47.385 -110.9706 19N 06E 29 DCAA 3800 527/03 18.1 574 8.58 141 6 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.385 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 8 878 7.65 106 20952 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 8 878 7.65 106 106 19C 107 107 107 107 107 107 107 107 107 107 | 209526 PLEASANT VALLEY COLONY SPRING 209527 PLEASANT VALLEY COLLONY S-4 47.385 -110.9706 19N 06E 29 DCAA 3800 527703 188.1 574 8.58 141 6 878 7.65 106 18.1 574 8.58 141 6 8.39 100 527703 180.0
180.0 | 209526 PLEASANT VALLEY COLONY SPRING 209527 PLEASANT VALLEY COLLONY S-4 47.385 -110.9706 19N 06E 29 DCAA 3800 527/03 18.1 574 8.58 141 6 878 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.2901 -111.0247 18N 06E 19 CCCD 4180 4/8/04 210402 BRUCE KEASTER 47.385 -110.9951 18N 06E 17 CAAD 3880 27.5 10/21/03 4/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3966 -110.9951 18N 06E 17 CAAD 4390 90 7/29/04 25.75 10/21/03 3.605 5 380 8/19/04 253.75 10/21/03 3.605 380 8/19/04 253.75 10/21/03 3.605 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 JIM SNIDER 47.4943 -110.9911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 PLEASANT VALLEY SPRING **OLD HARRIS** HOMESTEAD RICK BECKER 47.4316 -110.9939 19N 06E 5 C 3730 530/04 2106 50 528/03 10.2 745 7.8 37.5 10.6 | 209526 PLEASANT VALLEY COLONY SPRING 209527 PLEASANT VALLEY COLONY S-4 47.365 -110.9706 19N 06E 29 DCAA 3800 527/03 16 878 7.65 106 18.1 574 8.58 141 6 8 878 7.02 224 0 2.22 10402 BRUCE KEASTER 47.365 -110.9024 19N 06E 38 ACAD 3800 27.5 10/21/03 4/9/04 18N 06E 19 CCCD 4180 4/9/04 19N 06E 38 ACAD 3800 27.5 10/21/03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 10055 JIM SNIDER 47.3966 -110.9951 19N 06E 22 8DD8 380 76 57/04 34.65 9.83 801 17.43 173 5 8.1 10055 1005 1005 1005 1005 1005 1005 1 | 209526 PLEASANT VALLEY COLONY SPRING 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 29 DCAA 3800 527/03 16 876 7.65 106 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 33 8D 3910 5/27/03 4/8/04 18.1 574 8.58 141 6 8 878 7.65 106 18.1 574 8.58 141 6 8 878 7.65 106 18.1 574 8.58 141 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| PRESIDENT COLLEGE FINEWAY DRIAN 47.372 | 200017 PRESINCH COLLES HIGHWAY DRAM 47372 110 0856 10 08 0 08 20 C00A 300 97803 110 0770 110 0 | | 200017 FRENCH-COLLEE* HIGHWAY DRAM 47 372 -118 005 108 005 22 COAA 300 200 | PRENDY COLLET HIGHWAY DRAIN 14 7372 -119287 119 8
 | 201999 | 201917 GLEN NOCELLAND 47.3774 -110.622 191 68E 2 CZAA 536 61.000 20.5 2.1 6.8 58H 7.4 -14.5 0 0 0 0 0 0 0 0 0 | 202591 DANN PARDMORER 47.221 11.08747 1819 105 2 0.086 3.00 0.00 | Description Control | 203450 UPPER BOX ELDER CREEK *LARSON 47.5865 -110.0666 189 06E 32 3840 07.703 19.2 400 7.86 7.81 240 7.86 7.81 240 7.86 7.81 240 7.86 7.81 240 7.86 230 240 | UPPER BOX LIDER CREEK * LASSON RANCH UPPER BOX LIDER CREEK * LASSON RANCH 47.3568 -110.8668 184 056 32 3840 77.1763 15.2 400 7.86 268 7.81 18.2 400 7.86 268 7.85 18.2 400 7.86 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268 7.85 268
268 268 | Difference Dif | Dispersion Control C | 200440 UPPER BOX ELDER CREEX** LARSON RANCH UPPER BOX ELDER CREEX** LABON 47.3566 -110.8686 18N 06E 32 340 0.02203 0.3 650 7.71 66 0.65 665 | LOWER BOX ELDER CREEK* BELOW J HARBIS RANCH LOWER BOX ELDER CREEK* BELOW J HARBIS RANCH LOWER BOX ELDER CREEK* BELOW J HARBIS RANCH LOWER BOX ELDER CREEK* BELOW J HARBIS RANCH LOWER BOX ELDER CREEK* BELOW J HARBIS RANCH LOWER BOX MARBIS RANCH LOWER BOX HARBIS RANCH LOWER BOX | 209451 LOWER BOX ELDER CREEK* EBLOW HARRIS RANCH LOWER BOX ELDER CREEK* EBLOW HARRIS RANCH 47,3779 -110,8856 19N 05E 29 374.5 817.03 23.3 395 8.15 286 7,88 209451 204516 JM LARSON 47,3651 -110,8444 19N 06E 34 ACDC 3226 16.6 1127/02 12.9 8.1 37.05 113.3 526 7.45 233.6 8.57 201.05 201.0 | LOWER BOX ELDER CREEK * BELOW J | 204516 JIM LARSON 0. 147.3651 -110.0484 NO. 0E 34 ACDC 3926 19.8 01.027/20 12.9 8.1 10.025 17.0 10.005 18.0 0E 34 ACDC 3926 19.8 024/03 12.65 13.1 13.1 528 7.45 233.8 8.57 2045/0 12.005 19.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 278.0 10.0 0E 34 ACDC 3926 19.8 024/03 12.65 13.1 13.1 528 7.45 233.8 8.57 2047/0 18.0 0E 12.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 2047/0 18.0 0E 12.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 2047/0 18.0 0E 12.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 2047/0 18.0 0E 12.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 2047/0 18.0 0E 12.0 0E 36 BACD 3570 381 11/2602 278.85 278.53 10 2047/0 18.0 0E 20.0 0E 36.0 0E 3000 31.0 0E 36.0 0 | 204516 JIM LARSON 47,3851 -110,1844 19N 06E 34 ACDC 3970 381 111/2602 378,55 378,53 310 526 7.46 233,6 8.57 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710 204710
204710 2 | SEEP ON LEFT SIGN CF HIGHWAY DRAIN* \$47,3757 110,927 19N 06E 26 3800 \$81903 \$10,4 3510 7,4 210 \$0,119 \$25509 \$25 | 205609 SELT CREEK 10 FT TOWN WELL #2 | 205653 JOHN HARRIS RANCH * SPRING 47,3693 -110,9074 19N 05E 29 3920 205836 JOHN HARRIS RANCH * SPRING 47,3693 -110,9074 19N 05E 29 3920 10/23/03 97,2 17,9 297 7,79 510 205836 8ELT CREEK 47,3763 -110,9056 18N 05E 20 DDA 827/03 18N 05E 20 052 | 205836 BELT CREEK 47.3636 -110.9105 18N 06E 12 ABDA 827703 97.2 179 510 25839 BELT CREEK 47.3753 -110.9105 18N 06E 26 DDDA 827703 97.2 19.2 372 7.76 510 205839 BELT CREEK 47.3606 -110.9253 18N 06E 26 DDDA 827703 97.2 19.2 372 7.76 510 205839 BELT CREEK 47.3606 -110.9253 18N 06E 26 DDDA 827703 97.2 19.2 372 7.76 510 205830 FRANK BALITOR 47.3786 -110.9268 18N 06E 3 DCDB 3530 11/27/20 205844 HOYER JERRY T. 47.4766 -110.9263 19N 06E 29 DBCB 3530 11/27/20 207256 PLEASERT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207258 PLEASERT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207269 PLEASERT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207269 PLEASERT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207269 PLEASERT VALLEY COLONY 47.3784 -110.9834 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 207269 PLEASERT VALLEY COLONY 47.3784 -110.9804 19N 06E 29 ACBB 3770 72 527703 30.59 10 7.21 85.8 20 207649 PLEASERT 47.3377 -110.9966 18N 06E 3 BCD 400 56.3 82403 411 19.8 992 7.02 75.5 3.9 80.00 190 10 10.00
10.00 10. | 205838 BELT CREEK 47,3753 -110,9163 18N 06E 26 DDDA 205839 BELT CREEK 47,3808 -110,9253 18N 06E 26 DBAA 20N 06E 35 DCDB 3490 202 87,0003 97.2 13.1 789 6.82 190 0 14.6 206364 HOYER JERRY T. 47,478 -110,9253 18N 06E 26 DBAB 3530 111,7702 207,258 PLEASENT VALLEY COLONY 47,3784 -110,9254 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 10,7 137 7,55 137 1,5 8.03 207,286 18N 06E 11 0,9254 18N 06E 19 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 10,7 137 7,55 137 1,5 8.03 207,286 18N 06E 19 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 10,7 137 7,55 137 1,5 8.03 207,286 18N 06E 29 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,238 10,7 137 7,55 137 1,5 8.03 207,286 18N 06E 19 ACBB 3770 72 8,2703 30.59 10 7,21 85.8 207,29 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 | 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 209592 ROGER NELSON 47.2901 -111.0247 18N 06E 19 CCCD 4160 4/9/04 8.83 484 7.02 224 0 2.22 210402 BRUCE KEASTER 47.3683 -110.9024 19N 06E 38 ACAD 3580 27.5 10/21/03 47.3683 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/6/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 | 210402 BRUCE KEASTER 47.3683 -110.8024 19N 06E 38 ACAD 3580 27.5 10/21/03 210533 MARRY EVANS 47.3126 -110.8951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 | 210533 MARRY EVANS 47.3128 -110.9951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 |
 | 212233 MURPHY, LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 JIM SNIDER 47.4484 -110.9604 20N 06E 33 DDD8 3635 29 5/7/04 12.5 8.93 1085 7.73 234 20 7.8 | 212233 MURPHY, LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 JIM SNIDER PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS HOMESTEAD 47.4131 -110.9716 19N 06E 16 3670 8/12/04 12.8 650 9.71 381 9.36 | 212233 MURPHY, LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 PLEASANT VALLEY SPRING * OLD HARRIS 100.971 100.9716 19N 08E 16 3670 8/12/04 12.5 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 | 212233 MURPHY, LARRY JIM SNIDER 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 213386 JIM SNIDER PLEASANT VALLEY SPRING * OLD HARRIS HOMESTEAD AT .4131 -110.9716 19N 06E 16 3670 8/12/04 12.5 860 9.71 381 9.36 214071 JIM DAWSON 47.3956 -110.9731 19N 06E 5 C 3730 5/30/04 10.8 10.8 10.8 214071 JIM DAWSON 47.3956 -110.9731 19N 06E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8 214078 JIM DAWSON 47.3994 -110.9867 19N 06E 21 8DC 3800 5/28/03 20.5 810 7.82 109 14.9 | 212233 MURPHY, LARRY JIM SNIDER PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING *
OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRIS PLEASANT VALLEY SPRING * OLD HARRI |
| PRINCH COLLEGE HIGHWAY DRIAN 37922 110,000 349 | 200677 PRENCHIQUALE HISHMAY PRIAM 17 272 110 285 24 000 20 0000 20 000 20 000 20 000 20 000 20 000 20 000 20 000 | 20071 FRENCH COLLES* HIGHWAY DRAM 47 3722 -110 2005 10 000 20 000 0 000 | 20077 PRENCH COLLEE* HIGHWAY DRAM 41 372 110 285 18 N OE 20 CCA 300 20 CCA 300 500 | PRENCH COLLET ING-HWAY DRAIM 47 3722 -119 2025 10.0
 | 200995 | 201577 POMERICIA CAMPAIGNOUND 47.3774 -11.0625 191 06E 25 COLA 3540 05 05 05 05 05 05 05 | 202549 DANN HARDWEST 473241 -110747 190 066 2 2 0 0 0 0 0 0 0 0 | 205450 CEMPER CREEKEY LASON UPPER ROX ELDER CREEK 'LASON 47.3565 -110.9685 190 OE 22 3840 35 27.732 190.000 192.0000 192.000 192.0000 192.0000 192.0000 192.0000 192.0000 192.0000 192.0 | 200450
 | Company Comp | 204460 UPPER BOX ELDER CREEK * LASSON RANCH UPPER BOX ELDER CREEK * LASSON 47.3585 -110.8865 18N 06E 32 3840 0.91903 15.8 602 7.85 253 7.03 190.9865 19N 06E 32 3840 0.91903 15.8 602 7.85 253 7.03 190.9865 19N 06E 32 3840 0.91903 15.8 602 7.85 253 7.03 190.9865 19N 06E 32 3840 0.91903 10.2503 1.0 | UPPER BOX LDER CREEK * LARSON A7.3596 -110.9896 19N 09E 32 3840 0*1903 0.7 020 7.56 245 253 245 2013 20440 UPPER BOX ELDER CREEK * LARSON 47.3596 -110.9896 19N 09E 32 3840 0*19030 0.7 020 7.56 245 | 204460 UPPER BOX ELDER CREEK* LARSON 47.3566 -110.9865 19N 06E 32 3840 91903 8.7 020 7.58 245 9.13 0.55 0.49 0.49 0.49 0.45 | LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH LOWER BOX ELDER CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J HARRIS RANCH* SPRING CREEK* BELOW J
HARRIS RANCH* SPRING CREEK* BELOW J HARRIS | LOWER BOX ELDER CREEK* FELOW J HARRIS RANCH 47.3779 -110,9855 19N 06E 20 3745 91703 223 395 8.15 266 7.88 14.3 204516 13M LARSON 47.3779 -110,9855 19N 06E 20 3745 42504 12.0 17 570 8.07 288 14.3 204517 13M LARSON 47.3875 -110,9854 19N 06E 20 3745 42504 12.0 17 570 8.07 288 14.3 14 | LOWER BOX ELDER CREEK* BELOW AFABRANCH 204516 JIM LARSON 47,3651 -110,948 feb 06E 34 ACDC 3926 18.6 1172702 12.9 8.1 52.6 7.46 233.6 8.57 | 204516 JIM LARSON 47,3705 110,905 194 06E 36 8ACD 3926 12,65 127,85 10 27,86 233,8 8,57 | SEEP ON LETT SIGO FHIGHWAY DRAIN SEEP ON LETT SIGO FHIGHWAY DRAIN | Selicit Creek* to OF TOWN WELL #2 47.3812 -110.9257 19N 06E 26 3520 82003 20653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 87.903 10 560 7.02 234 429 206539 206539 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 87.903 10.2033 9.5 560 7.42 62 3.9 206539 206539 ELT CREEK 47.3763 -110.9056 18N 06E 12 ABDA 827.03 827.03 19.2 377 7.45 510 207.03
207.03 | 295653 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 3920 87.003 97.2 324 4.29 205633 JOHN HARRIS RANCH* SPRING 47.3663 -110.9974 19N 06E 29 ABDA 81LT CREEK 47.3753 -110.9181 19N 06E 25 DBAA 380 BELT CREEK 47.3753 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3753 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3753 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3754 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3754 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3756 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3756 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3756 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3756 -110.9253 19N 06E 25 DBAA 380 BELT CREEK 47.3756 -110.9253 19N 06E 29 ACBB 3770 72 S27703 30.59 10 7.21 85.8 19N 06E 29 ACBB 3770 72 S27703 30.59 10 7.21 85.8 19N 06E 29 ACBB 3770 72 S27703 30.59 10 7.21 85.8 19N 06E 20 ACBB 3770 72 S27703 30.59 10 7.21 85.8 19N 06E 20 ACBB 3770 72 S27703 30.59 10 7.21 85.8 10 0.52 207643 18VINE 47.3507 -110.9566 19N 06E 3 BCAD 4000 56.3 8CAD 40 | 266836 BELT CREEK 47.3636 -110.9056 19N 05E 26 DDDA 927.03 17.70 570 500 205839 BELT CREEK 47.3753 -110.9183 19N 05E 26 DDDA 927.03 19.0 207.03 19.0 207.0 207.03 19.0 207 | 206836 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDDA 205836 BELT CREEK 47.3808 -110.9253 18N 06E 26 DDBA 205836 BELT CREEK 47.3808 -110.9253 18N 06E 26 DBBA 205836 BELT CREEK 47.3808 -110.9253 18N 06E 25 DCB 3490 202 87.003 97.2 13.1 789 6.82 190 0 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 | 209527 PLEASANT VALLEY COLLONY S-4 47.365 -110.9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 8 209592 ROGER NELSON 47.2901 -111.0247 18N 06E 19 CCCD 4160 4/9/04 8.83 484 7.02 224 0 2.22 210402 BRUCE KEASTER 47.3683 -110.9024 19N 06E 38 ACAD 3580 27.5 10/21/03 8.83 484 7.02 224 0 2.22 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/6/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/29/04 25.77 8.81 686 7.26 107 8.14 210655 JJM SNIDER 47.3986 -110.951 19N 06E 22 BDDB 360 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 | 210402 BRUCE KEASTER 47.3683 -110.8024 19N 06E 38 ACAD 3580 27.5 10/21/03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/29/04 25.77 8.81 886 7.26 107 8.14 210655 JJM SNIDER 47.3986 -110.9951 19N 06E 22 BDDB 3860 76 5/7/04 34.66 9.83 801 7.43 173 5 8.1
 | 210533 MARRY EVANS 47.3128 -110.9951 18N 06E 17 CAAD 4390 90 5/6/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4390 90 7/29/04 25.77 8.61 886 7.26 107 8.14 210655 JIM SNIDER 47.3986 -110.951 19N 06E 22 BDD6 3860 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 | 210655 JIM SNIDER 47.3986 -110.951 19N 06E 22 BDD8 3860 76 577/04 34.65 9.83 801 7.43 173 5 8.1 | PLEASANT VALLEY SPRING * OLD HARRIS | PLEASANT VALLEY SPRING * OLD HARRIS 213598 | PLEASANT VALLEY SPRING * OLD HARRIS 213598 HOMESTEAD 47.4131 -110.9716 19N 06E 16 3670 8/12/04 12.8 650 9.71 381 9.36 214068 RICK BECKER 47.4318 -110.9939 19N 06E 5 C 3730 5/30/04 10.8 214071 JIM DAWSON 47.3956 -110.8731 19N 06E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8
 | PLEASANT VALLEY SPRING * OLD HARRIS 213598 HOMESTEAD 47, 4131 -110,9716 19N 06E 16 3670 8/12/04 12.8 650 9.71 381 9.36 214068 RICK BECKER 47, 4316 -110,9939 19N 06E 5 C 3730 5/30/04 10.8 214071 JIM DAWSON 47,3956 -110,9731 19N 06E 21 BDC 3800 5/28/03 10.2 745 7.9 37.5 10.8 214078 JIM DAWSON 47,3994 -110,9887 19N 06E 21 BAD 3790 5/28/03 20.5 810 7.82 109 14.8 | PLEASANT VALLEY SPRING * OLD HARRIS 213598 HOMESTEAD 47.4131 -110.9716 19N 06E 16 3670 8/12/04 12.8 660 9.71 381 9.36 214068 RICK BECKER 47.4318 -110.9939 19N 06E 5 C 3730 5/30/04 10.8 214071 JIM DAWSON 47.3956 -110.9867 19N 06E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8 214078 JIM DAWSON 47.3956 -110.9867 19N 06E 21 BAD 3790 5/28/03 20.5 610 7.82 1099 14.9 214079 RICK BECKER 47.413 -110.9486 19N 06E 5 C 3730 5/30/03 4.28 11.7 619 7.58 98 9.1 214093 DOUG ZIMMERMAN 47.4345 -110.9623 19N 06E 4 CADC 3720 5/28/03 94.19 12.9 1398 6.67 14.8 1.8 |
| PRENCH COLLEGE HIGHWAY DRIAM 37.972 110.000 30.00 30.00 50.000 30.00 3 | 200617 PRENCHICOLLEE HIGH-HAVE PRIAM 27/22 110 2005 10 80 90 22 200.03 200 10 10 10 70 77.5 200 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | PRESIDENT COLLES HIGHWAY DRAWN 47372 110,0855 100,000 20 | 200577 PRENCH COLLEE* HIGH-WAY DRAM 14 2727 11 18 18 NO 20 20 20 20 20 20 20 2 | 200906 FRENCH-COLLET INGERNAY ORDAN 47 3722 118 005 20 13 005 20 20 20 20 20 20 20
 | 2016/09 PAN OCIE 473-546 -110-675 18 N OE 15 ORAC -000 10 UPCR CORE CAMPOROLINO -110-675 - | 201717 DICHEMOCLEANON 47.577 -110.022 10.00 20.00 | 202545 DAANY HARDINGER 473241 -1196747 1916 066 5 Clock 4240 0 5 1916 | 202450 CORPER FOX ELDER CREEKE'-LARSON 47.3598 -110.9685 191 096 23 23.40 35 25.80 191 26.80 191 27.32 298 | 20450
 | UPPER BOX ELDER CREEK * LASON PAUCH UPPER BOX ELDER CREEK * LASON | UPPER BOX ELDER CREEK* LARSON 47,3566 -110,8686 19N OE 32 3840 71,703 15 6 60 7.85 253 7.83 | Depart Box LDBR CREEK* LASON RANCH 47.3586 -110.9881 184 06E 32 3440 9/1803 15.0 0.07 7.55 25.3 7.63 20.451 1.0 1. | UPPER BOX ELDER CREEK * LASSON RANGE 47.3586 - 110.8886 19N 06E 32 340 10.2363 8.7 620 7.56 245 9.13 10.2364 10.2363 8.7 620 7.56 245 9.13 10.2364 10.2363 8.7 620 7.56 245 9.13 10.2364 10.2363 | LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH ELDW J LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH ELDW J LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH ELDW J LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH ELDW J LOWER BOX ELDER CREEX * SELOW J HARBIS RANCH ELDW J LOWER BOX ELDW J LOWER BOX ELDER CREEX * SELOW J LOWER BOX ELDW J LOWER BOX ELDER CREEX * SELOW J LOWER BOX ELDW J LOWER BOX E | LOWER BOX ELDER CREEK* ELDOW J HARRIS RANCH 47.3776 -110.9855 19N 06E 20 3745 91703 223 395 8.15 266 7.88
7.88 | LOWER BOX ELDER CREEK* BELOW AFABRANCH 204516 | 204516 JIM LARSON 47,3765 110,0925 | 24710 SELT MT SELT M | Selicidad Seli | 206553 JOHN HARRIS RANCH* SPRING 47,3863 -110,9974 19N 06E 29 3920 10,2030 9,5 560 7,02 224 4.29 206539 206539 JOHN HARRIS RANCH* SPRING 47,356 -110,9974 19N 06E 29 3920 10,2030 9,5 560 7,42 62 3.9 205539 205539 8ELT CREEK 47,356 -110,9254 19N 06E 20 20D, 20D, 20D, 20D, 20D, 20D, 20D, 20D, | 206886 BELT CREEK 47.3693 -110.9056 18N 05E 25 DDA 92703
 | 205838 BELT CREEK 47.3753 -110.9183 19N 05E 25 DDA 205839 BELT CREEK 47.3808 -110.9253 19N 05E 25 DBA 205839 BELT CREEK 47.3808 -110.9253 19N 05E 25 DBA 205839 BELT CREEK 47.3808 -110.9253 19N 05E 25 DBA 205839 BELT CREEK 47.3808 -110.9253 19N 05E 25 DBA 205839 BELT CREEK 47.3808 -110.9253 19N 05E 25 DBA 205839 20033 97.2 13.1 789 6.82 190 0 14.5 206544 HOYER JERRYT 47.4266 -110.9223 19N 05E 25 DBA 205939 110.7702 110.7703 11 | 209527 PLEASANT VALLEY COLLONY S-4 47,385 -110,9706 19N 06E 33 8D 3910 5/27/03 18.1 574 8.58 141 6 209592 ROGER NELSON 47,2901 -111,0247 18N 06E 19 CCCD 4180 449/04 8.83 484 7.02 224 0 2.22 224 0 | 210402 BRUCE KEASTER 47.3683 -110.8024 19N 06E 38 ACAD 3580 27.5 10/21/03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4380 90 5/8/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210533 MARRY EVANS 47.3126 -110.9951 18N 06E 17 CAAD 4380 90 7/29/04 25.77 8.81 886 7.26 107 8.14 210555 JJM SNIDER 47.3986 -110.9951 19N 06E 22 BDDB 3860 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 212233 MURPHY, LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.88 64 0.42 | 210533 MARRY EVANS 47.3126 -110.9951 18N 05E 17 CAAD 4390 90 5/6/04 29.57 32.4 8.17 1019 7.51 90.8 10 9.03 210553 MARRY EVANS 47.3126 -110.9951 18N 05E 17 CAAD 4390 90 7/29/04 25.77 8.61 886 7.26 107 8.14 210555 JJM SNIDER 47.3986 -110.961 19N 05E 22 BDDB 3860 76 5/7/04 34.65 9.83 801 7.43 173 5 8.1 212233 MURPHY, LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1889 6.88 64 0.42 | 210655 JJM SNIDER 47.3986 -110.951 19N 06E 22 BDD8 3860 76 57/04 34.65 9.83 801 7.43 173 5 8.1 212233 MURPHY,
LARRY 47.4043 -110.8911 19N 07E 18 CCD 3765 380 8/19/04 253.65 275.3 10.9 1689 6.86 64 0.42 | | 200 000 9.71 301 8.30 | 214068 RICK BECKER 47.4318 -110.9939 19N 06E 5 C 3730 5730/04 10.8 214071 JIM DAWSON 47.3956 -110.9731 19N 06E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8 | 214068 RICK BECKER 47.4316 -110.9939 19N 06E 5 C 3730 5730/04 10.8 214071 JIM DAWSON 47.3956 -110.9731 19N 06E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8 214078 JIM DAWSON 47.3994 -110.9887 19N 06E 21 BAD 3790 5/28/03 20.5 810 7.82 109 14.8
 | 214068 RICK BECKER 47.4318 -110.9939 19N 08E 5 C 3730 5730/04 10.8 214071 JIM DAWSON 47.3956 -110.9731 19N 08E 21 8DC 3800 5/28/03 10.2 745 7.9 37.5 10.8 214078 JIM DAWSON 47.3994 -110.9887 19N 06E 21 BAD 3790 5/28/03 20.5 810 7.82 1099 14.9 214079 RICK BECKER 47.413 -110.9868 19N 06E 5 C 3730 5/30/03 4.28 11.7 819 7.58 98 9.1 214093 DOUG ZIMMERMAN 47.4345 -110.9623 19N 06E 4 CADC 3720 5/28/03 94.19 12.9 1398 8.87 14.8 1.6 |

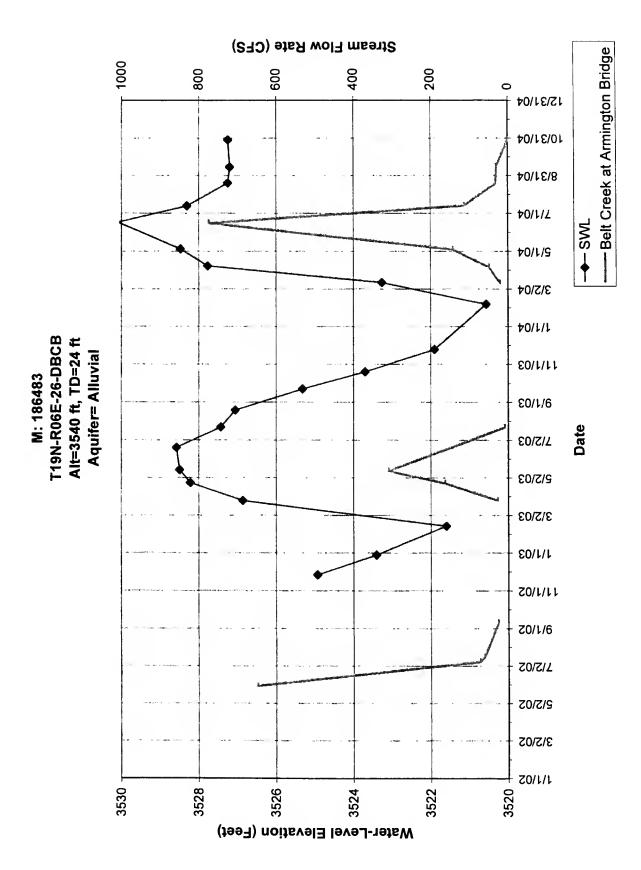
Appendix B

Ground-Water Hydrographs

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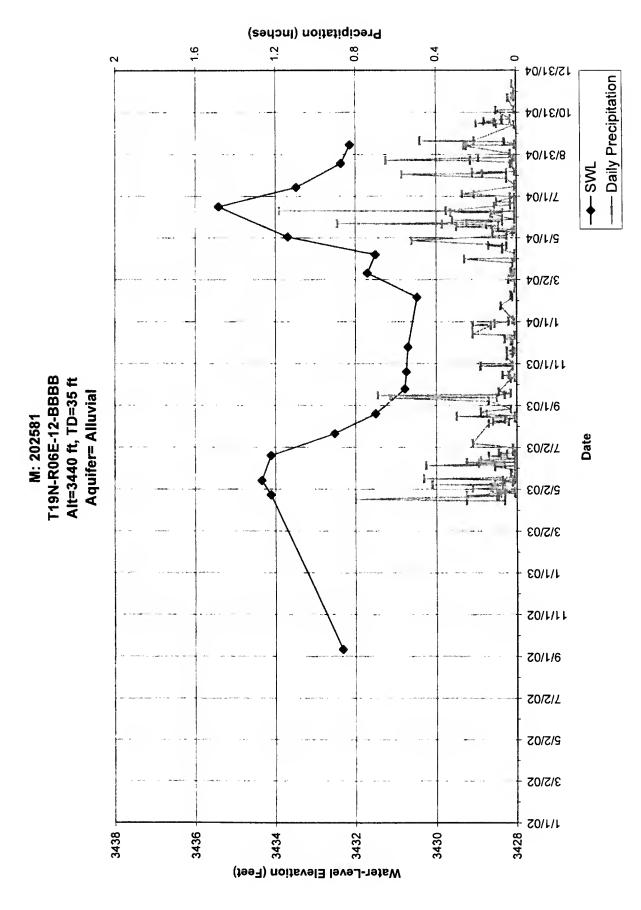
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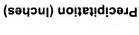


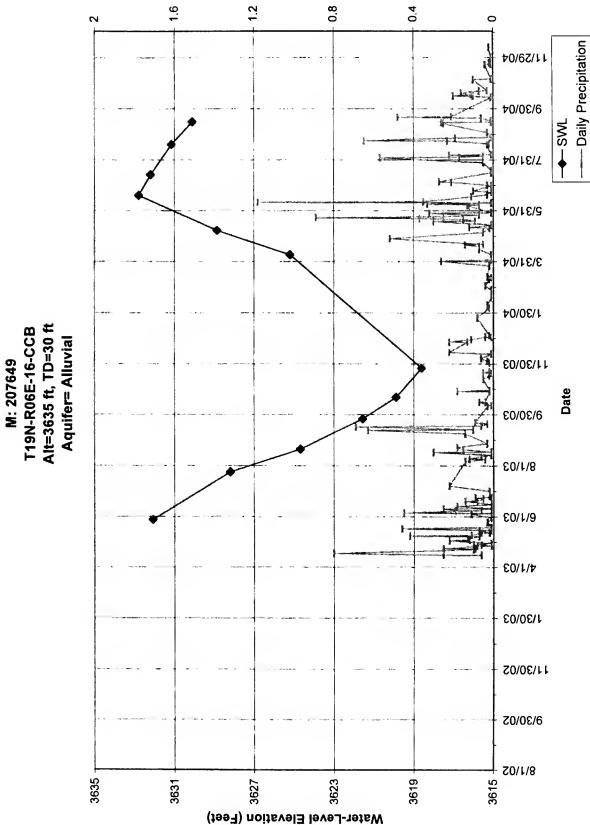


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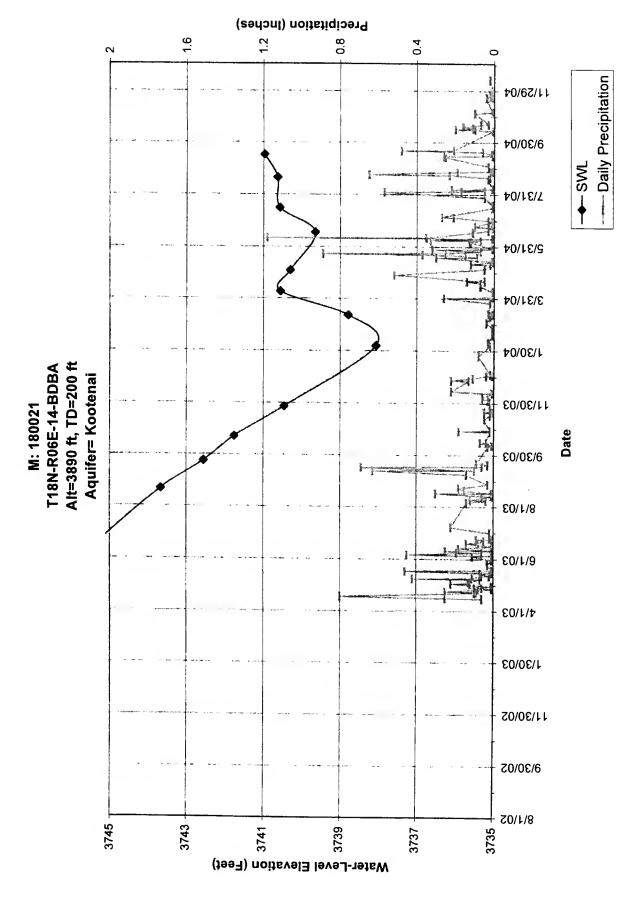




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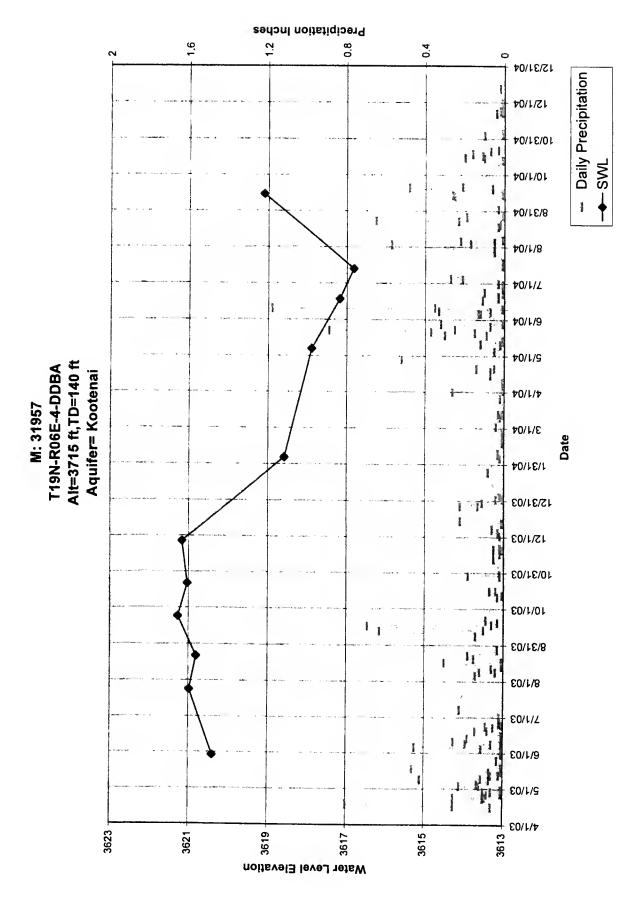
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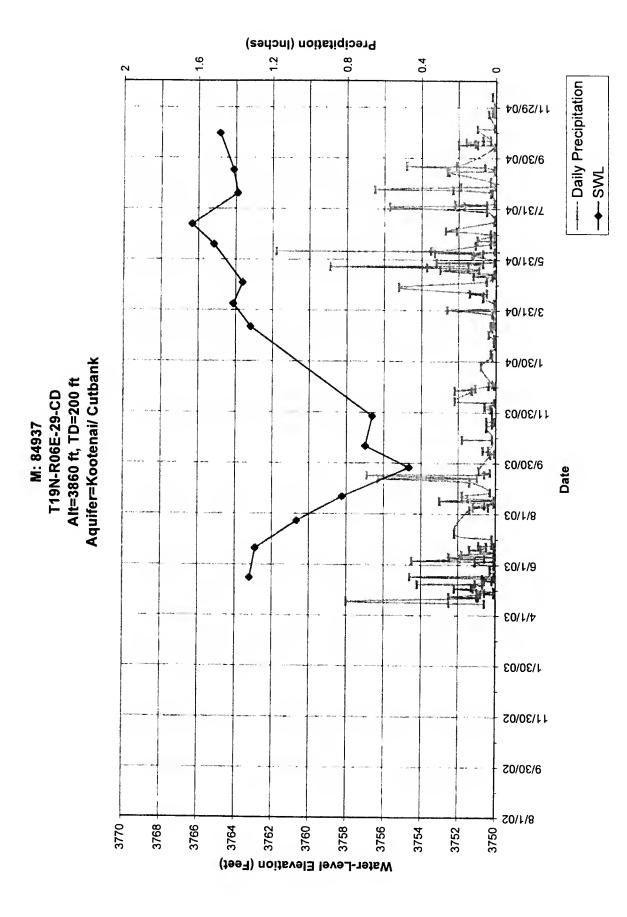




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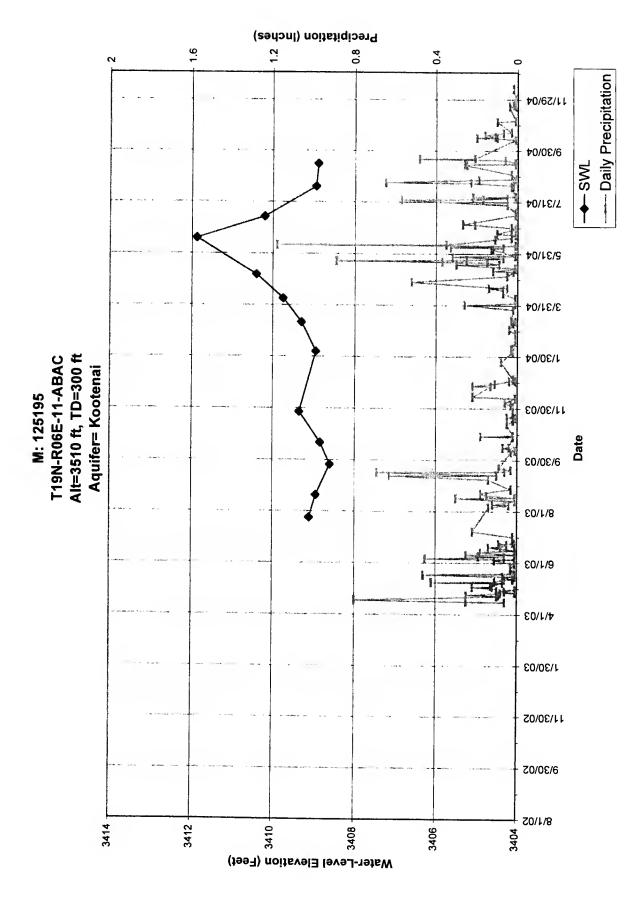


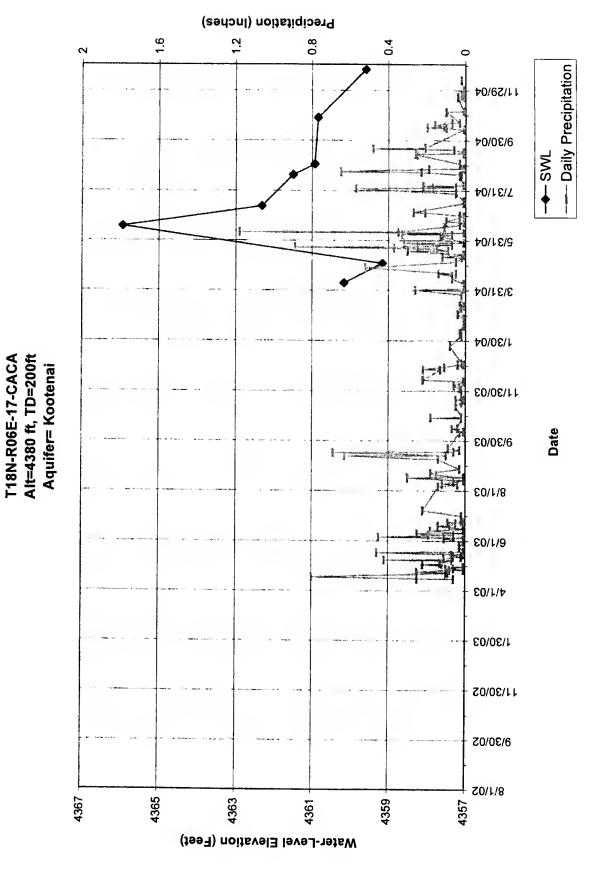




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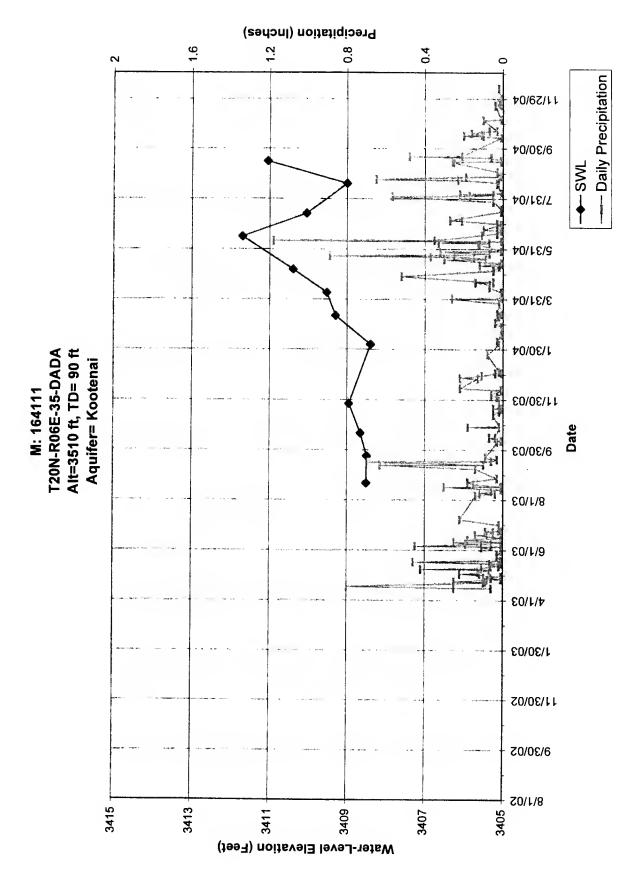
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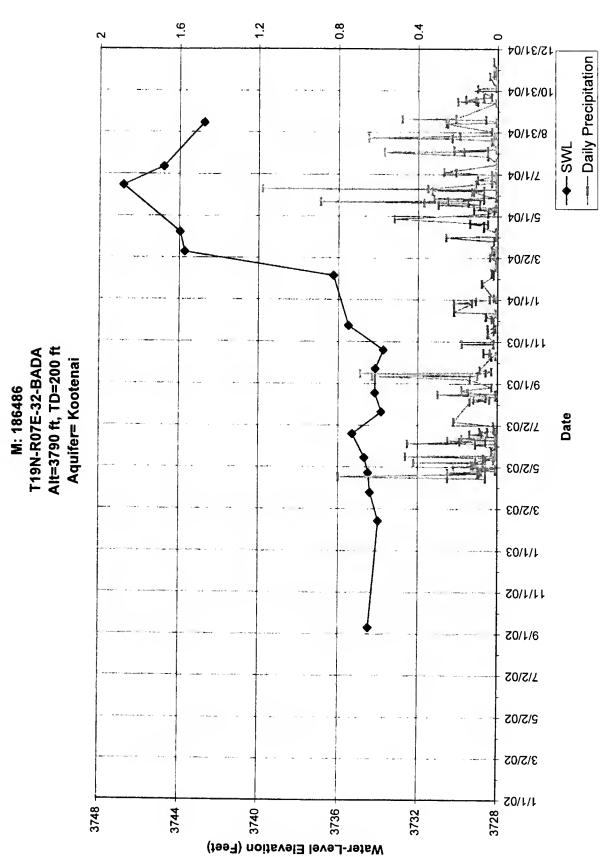
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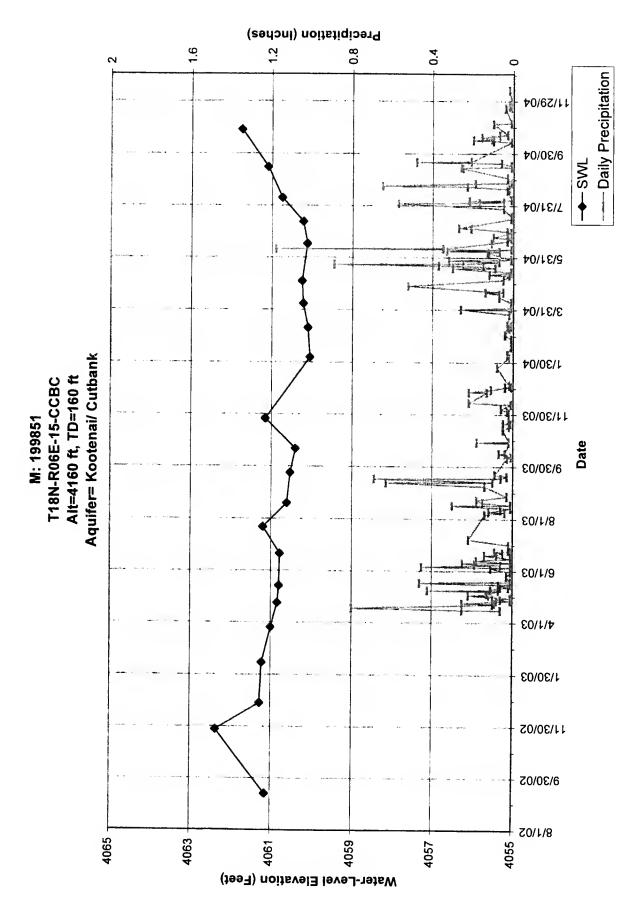




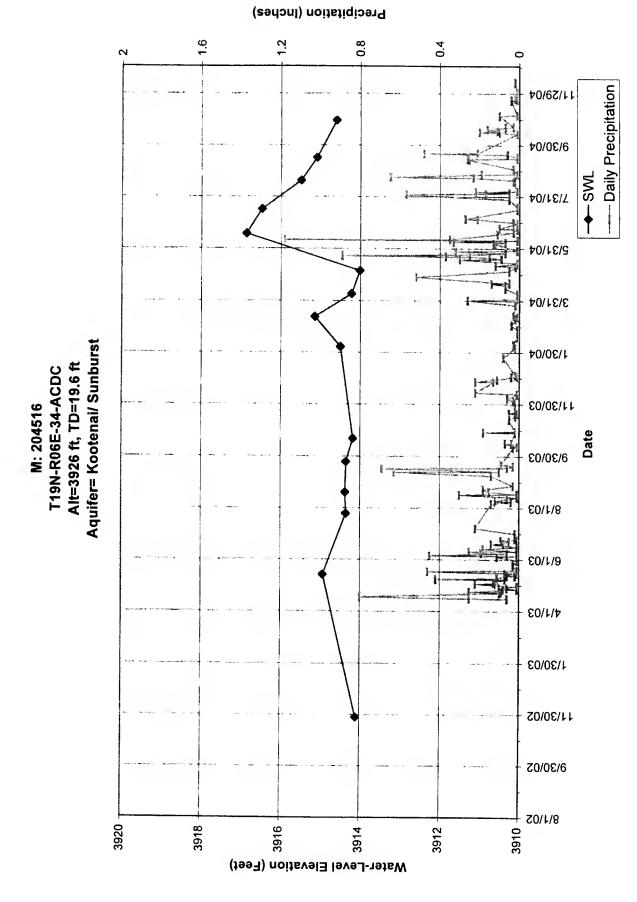
Precipitation (Inches)





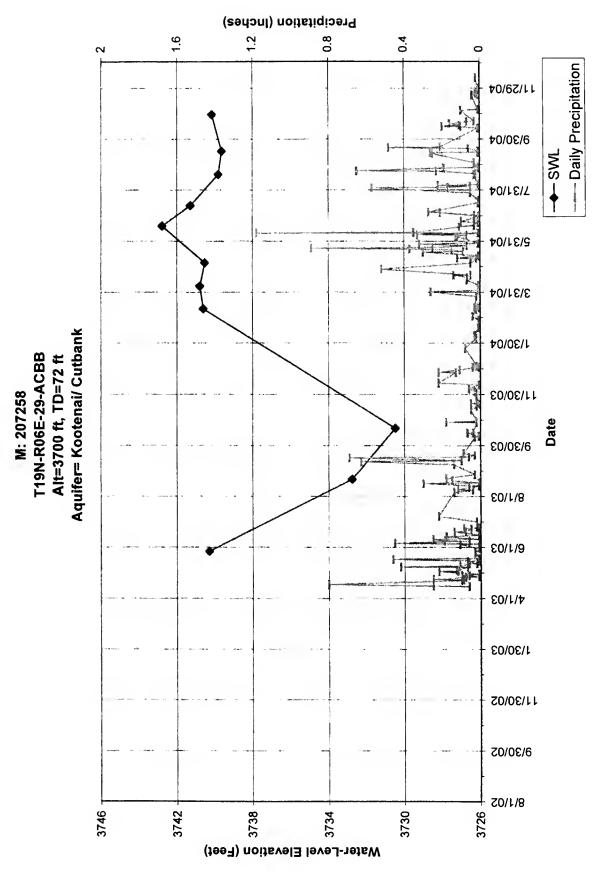


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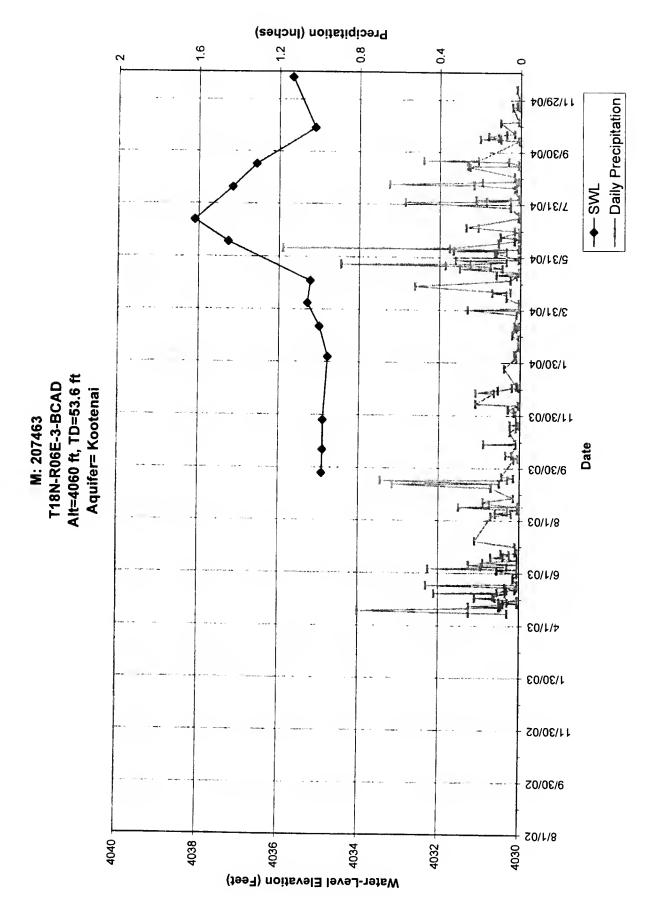
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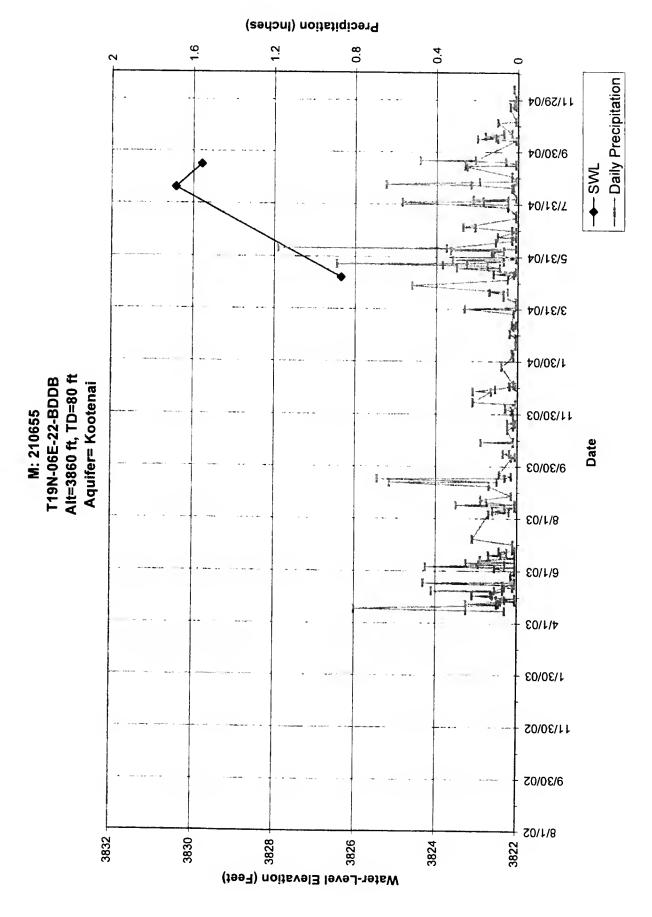
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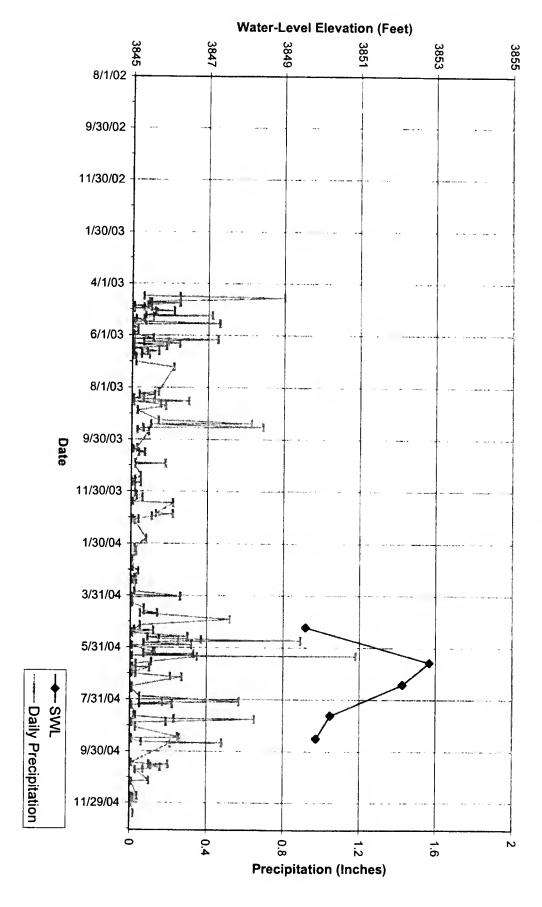




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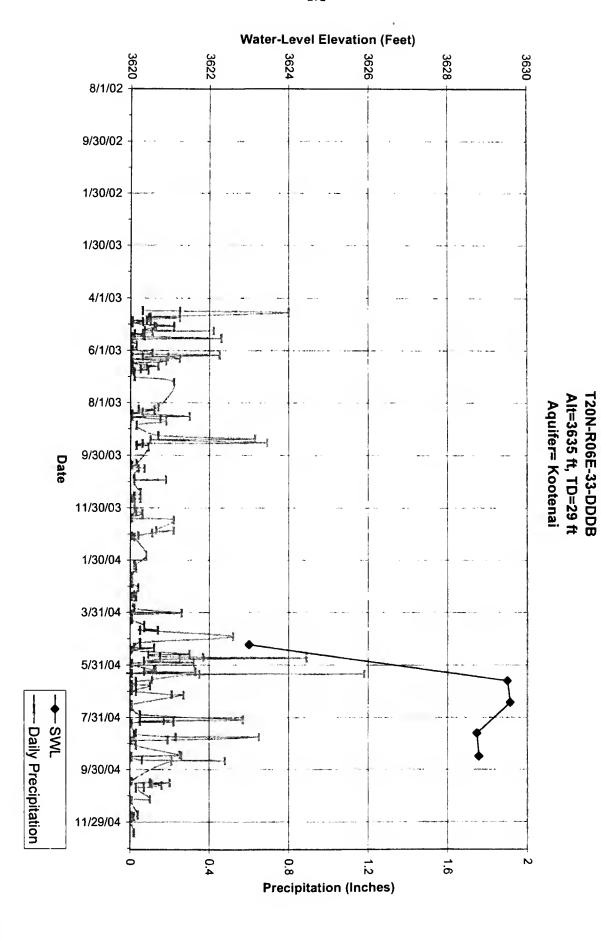






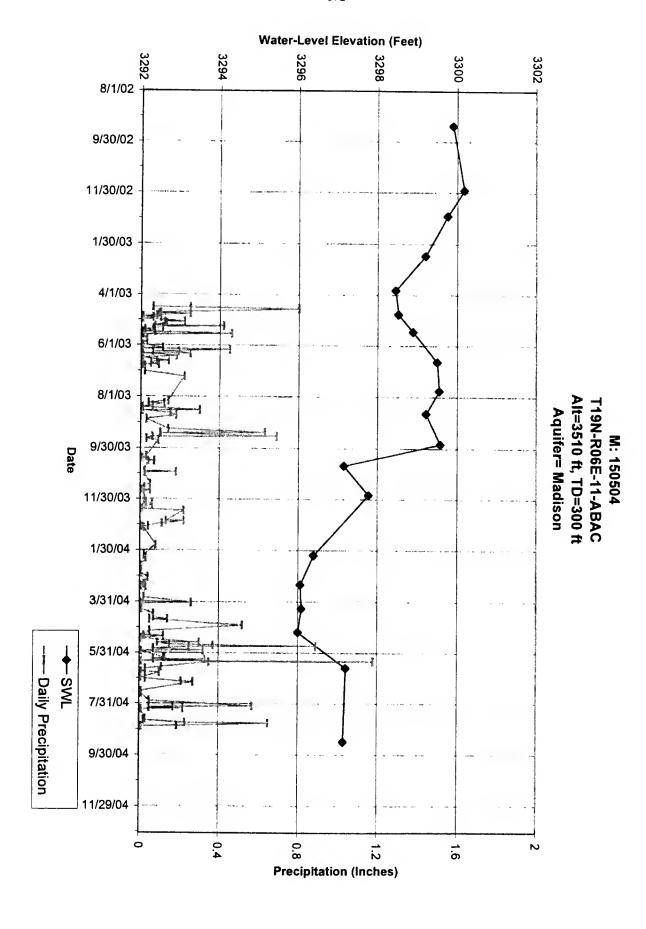
M: 210659 T19N-R06E22-BDDB Alt= 3860 ft, TD=16.6 ft Aquifer= Kootenai

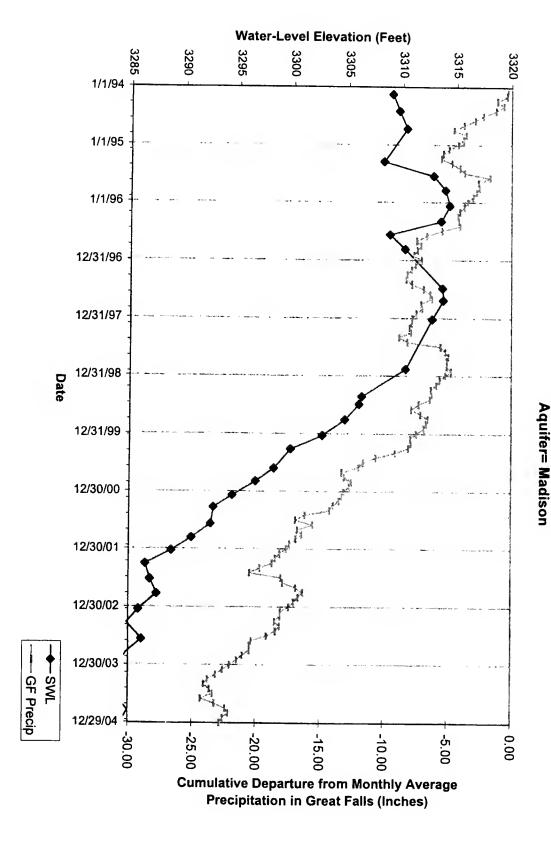
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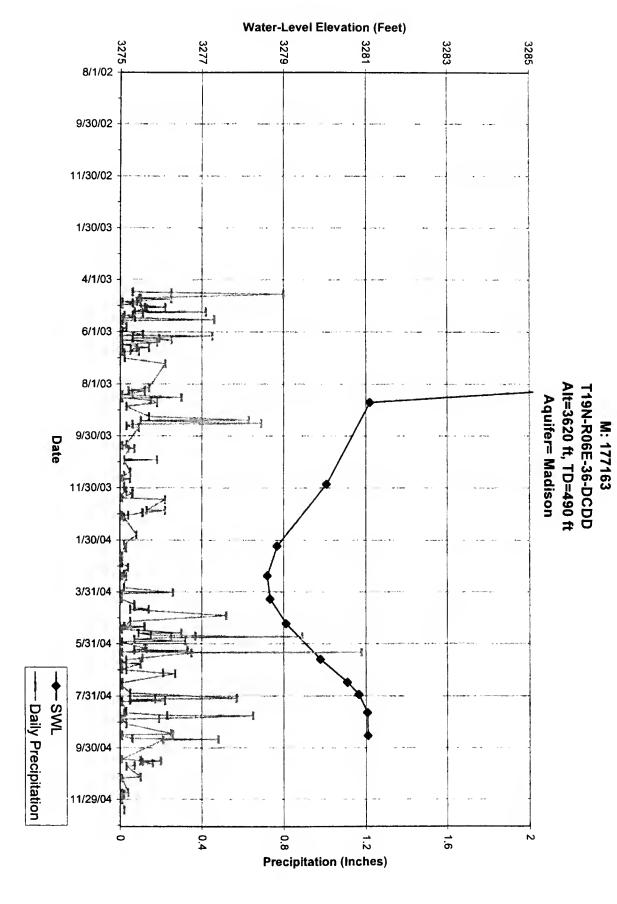
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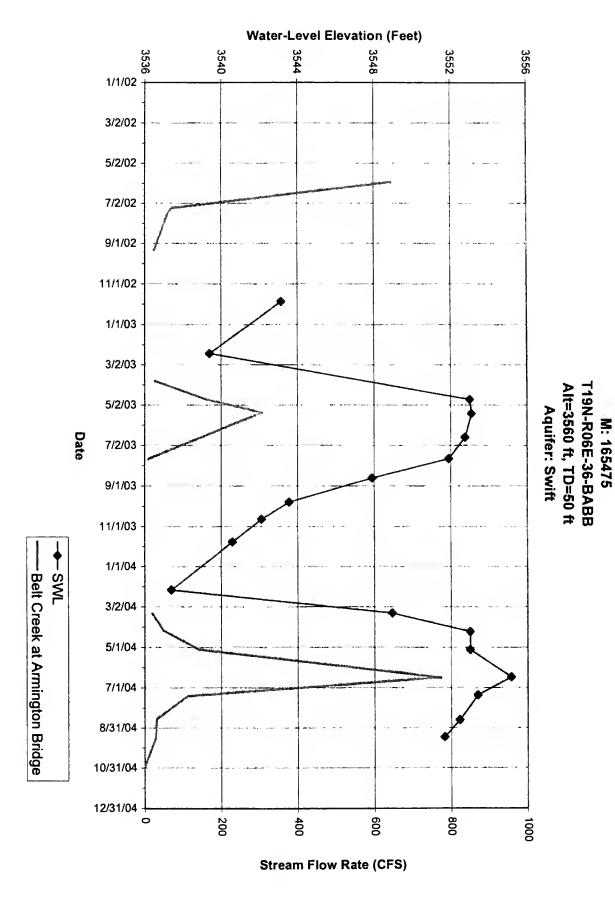
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Alt=3520 ft, TD=430 ft

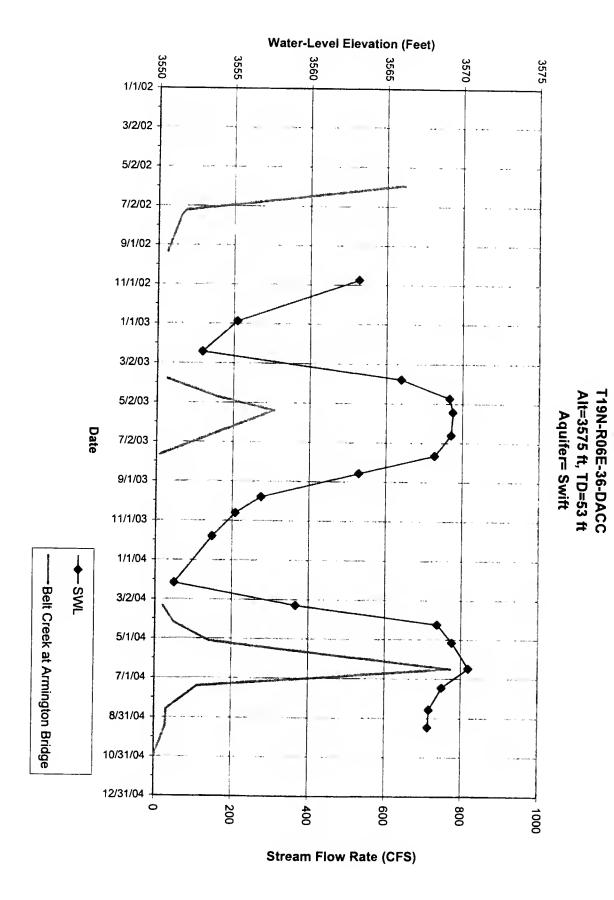




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M: 31992 19N-06E-23-BADA Alt=3494 ft, TD=75 ft Aquifer= Swift

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Water-Level Elevation (Feet)

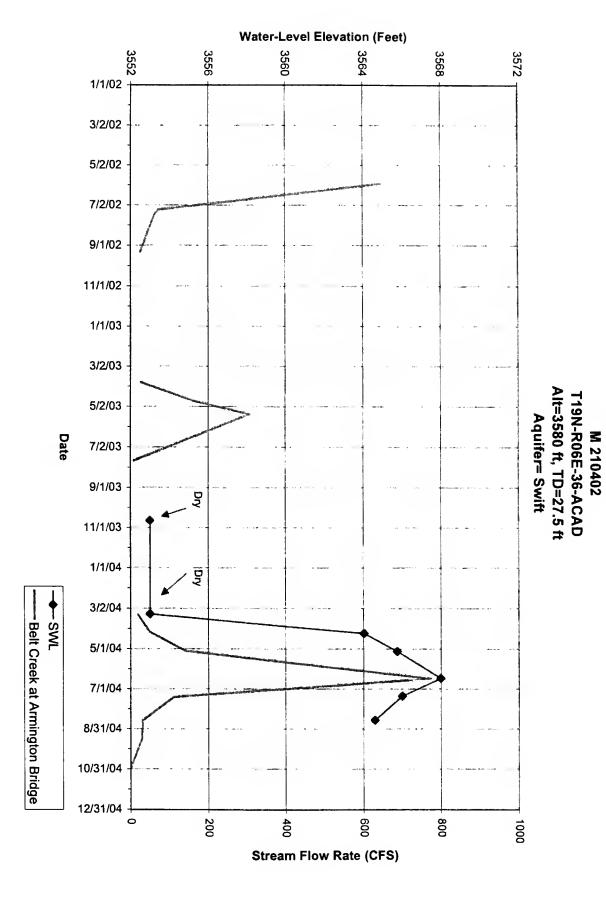
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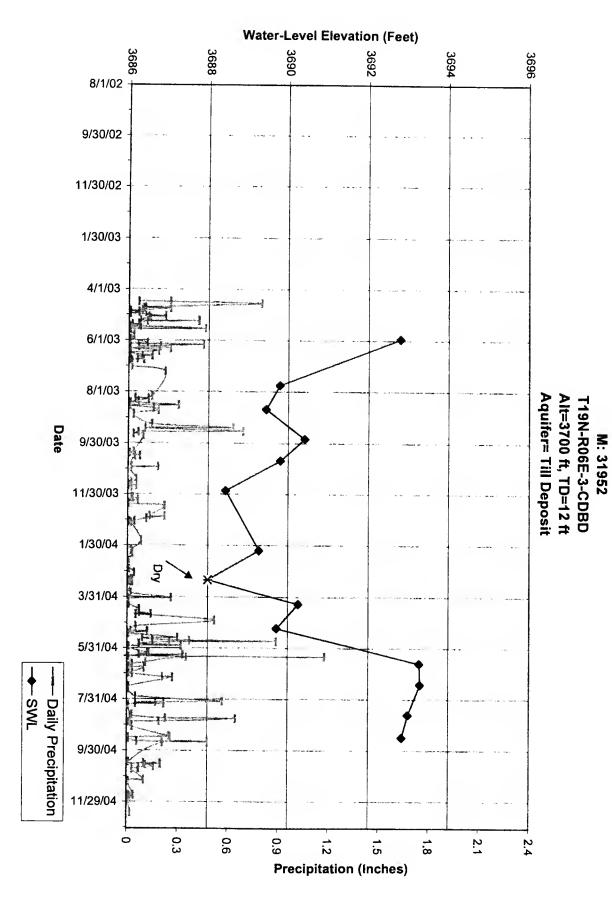
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T19N-R06E-23-BDBA

Stream Flow Rate (CFS)





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Appendix C

Surface and Spring Field Parameters and Flow Charts

214391 Otter	Otter Greek	Bridge			Longitude	(feet)	Date	Water (feet)	Ŧ	(umhos/cm)	ઇ	DO (mg/l)	E	(cfs)	Mesurment	Conditions
	r Creek		148N DOZE 06													
		Creek	CCCB	47.348	-110.8957	3600	3/27/03	16.1	9.52	653	3.3	13	138.7	14.4	Staff and Wade	
							4/25/03	100	0	6	•			,	Staff and	
							7/23/03	6.6	7.0	813	13.5		250	6.3	Wade	ı
							0,40,00							5		Dy
							8/19/03							0		Dry
							9/26/03	16.5						(4.8)	ш	
															Staff and	
							10/22/03	16.8	8.32	1053	13.8	13.1	239	9.0	Wade	
							2/6/04							0		Frozen
							3/12/04		7.1	634	7.02	11.27	272	0		Frozen
															Staff and	
							4/6/04	16.6	8.15	848	14.55	13.56	283	7.4	Wade	
							!		:						Staff and	
							5/5/04	15.6	8.18	947	14.41	12.12	123	5.5	Wade	
		i					6/17/04	8 7 1	27	693	12 67	77.07	•	å	Stall arid	
		Stream F	Stream Flow on Otter Creek	reek	+	Flow Measurments	5	<u>.</u>	Š	3	16.31	<u>.</u>	5 77	07	Staff and	
				The second secon	The second secon	A state of the same 7/14/04	16.6	8.21	892	19.23	9.28	144	7.5	Wade		
			-			-	8/18/04	16.7	7.98	1015	17.72	8.07	124	(3.9)	ш	
					-		9/15/04	16.6	7.22	1021	11.46	12.4	107	(3.6)	w	
			-	-			Flow meas	urements denoti	ing F wer	Flow measurements denoting E were calculated by using a Depth to Water method	n a Denth	to Water met	2	()	ı	
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20/15/2 20/15/2	Z0/0E/	- E0/07/	E0/1/03	EOVOEV	HOVE!	+a/re/										
1		ı		11	ε											

	Marine	Manushar Stream		Location		•	Elevatio		Depth to		Conductivity	Temp	8	ORP	Flow	Mesurment	Stream
		Podent		(16A1)		Longitude	n (reet)	Date	water (reet)	됩	(umbos/cm)	(ပိ	(mgd)	(mv)	(cts)	Method	Conditions
-	214386	Creek	Bridge	Ridge DRRR	47 3654	110 0066	35.50	104100	9		į						
							2000	7/0/07	12.32 15.5	0.0 1.0 1.0	153	12.3		130.8	647	Fish and Crane	
								7/17/02	5.0	0.0	007	<u>.</u> ت	,		(71.7)	ш	
								9/11/02	16.1	0.38	7/0	54	96.2	72.5	60.7	Staff and Wade	
								0/17/02	5.0						(52)	ш	
								9/23/02									مُمْ
								10/22/02									ò o
								11/27/02									o d
																	Uny
								3/27/03	16.8						(26 R)		
								4/24/03	14.65						(162.3)	JU	5
								5/14/03	14.9	808	216	5	;	0,0	308 4	Fich and Oregon	
								7/23/03	16.6	3 8	not working		=	617	300.1	Staff and Wade	
_))	2	3			ò	סומון מווח אמחם	
								8/19/03									č
								9/26/03									ءُ دُ
								10/21/03									ءُ دُ
	ช	tream Flow	on Belt Creek	Stream Flow on Belt Creek at Armington Bridge	ndge	Measuments		11/25/03									ŠČ
- L 000	· -	1	1	i.				2/6/04									ءَ دَ
						•		:									ì
100	!		+	-	4	=======================================		3/12/04	16.5	7.17	623	8.43	22.5	271	19.9	Staff and Wade	
	•		-					4/6/04	16.25	8.48	336	14.21	10.94	234	48.3		
89	-		+	-													
		***	-					5/5/04	14.8	8.33	153	10.69	12.56	133	(141.9)	ш	To Fast To Wac
tep		-	-	-				6/16/04	13.7	8.67	172	9.64	11.15	141	773.9	Fish and Crane	
) equ						-		7/14/04	15.9	6.01	259	21.8	8.65	162	112.1	Staff and Wade	
~ ~								8/18/04	16.6	8.37	323	17.57	7.74	253	(31.4)	ш	
300	4	. +	•		!			9/15/04	16.7	6.7	370	11.85	11.05	101	(58.)	ш	
			<					10/28/04	17.5	7.27	487	3.68	6.67	186	1.27	Staff and Wade	
82			¥ + · · ·	1	+		-	·low measu	rements denotii	ng E wer	Flow measurements denoting E were calculated by using a Depth to Water method	ng a Depth t	o Water m	ethod.			
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8	1	<u> </u>	1		1-1-												
_	!	•	•	المر		7											
ZOVLA	20/15	20/06	E0/17	5000 5000	10/01	90/1											
•	EUL	2/11	•	C/8	C/I	ent											
				Date													

Figure Cartee Tree Took Figure Cook Fi	Mnumber	Streem	Station	Location	Leftude	Longflude	Elevation (feet)	Dete	Depth to Water (feet)	Ŧ	Conductivity (umbos/cm)	Temp (C1)	DO (mgf)	ORP (mv)	Flow (gpm)	Flow Mesument Method	Nitreta	Flume size is .5 * H flume	Stream
Thirties Thirties		Franch Coulee	East side T	19N R08E 26							:	;			,				
### 27/73		Highway Drain	of FIII	CDDA	47.3754	-110.9286	3560	2/14/03	8.26 6.3	7.8	570 570	15.2 2.3	12.27	109	6 12.6	Staff and Wade			
## 127/03 8.3 8.4 9.10 11.1 9.3 30 Publication of the control of t									;	;	;	:	•		;	Bucket Stop			
1,10,000 1,10,000 1,10								3/21/03	?	Ç	200	0	2	9.0	3	Bucket Stop			
62203 6.27 12 11.7 16.1 11.1 10.1 11.3 11.3 Which is the control of the control o								4/25/03		6,45	916	9.1		-15	30	Watch			
## 11.0 11.1												ç	:	5	;	Bucket Step			
## 11.14 101.3 11.5 Buddet Stop ### 15.1								50/61/6		87°a	770	2	-	200	ŝ	Bucket Stop			
1/1/28/03 1/28 1/								6/22/03		8.28	745	11.9	11.14	101,3	11.5	Watch			
### 12 11.0 14.5 16.65 54 12 12.00 14.61 14.5 16.65 14.5 14.5 16.65 14.5								203003		7 48	1548	15.1		2	140	Bucket Stop Watch			
### 11/26/03 5.62 860 14.5 16.85 54 12 Walch Bucket Stop Watch 11/26/03 6.16 843 3.57 13.91 11.16 14.3 6 Watch Watch 25/04 5.7 683 11.16 14.3 6 Watch Stop Watch 37/104 6.16 843 3.57 13.91 11.13 12 Watch Stop Stop Stop Stop Stop Stop Stop Stop										:				l	!	Bucket Stop			
### 11.29/03								6/21/03		5.62	980	14.5	16.65	5	1.2	Watch			
26004 5.7 683 15.51 13.91 -113.9 12 Wellch Burder Stop Synthesis Methods Highway Drain Theorements denoting E were celtalated by using a Depth to Water medical methods and well and whole and well and well and whole and well and whole and well and well and well and well and whole and well and well and well and well and well and well and well and well and whole and well and								8/26/03		7.3	1/8	10.93	11.16	143	•	Watch			
### STATE 1.46 1.46 1.47 0.3 1.35 1.13 1.2 Welch STATE										:	;	1	;	;	:	Bucket Stop			
### 13.7								11/26/03		9.16	843	3.57	13.91	-113.0	7	Bucket Stop			
### Sylving Sy								2/6/04		5.7	683	1.48	13.71	0.3	13.3	Watch			
### STATION Franch Caules Highway Drain										;	į	9	,	ä	f	Buckal Stop			
### Play Franch Coules Highway Drain								3/11/04		0		0.40	Ë	2	2	Bucket Stop			
Bucket Stop Bucke										7.02	648	6.21	11.97	-38	27.3	Watch			
6150A 6.54 645 645 113 142 10.14 50 Watch 113 147 113 141 113 141 113 141 113 141 141 15 141 141 15 141 141 15 141 141			T Flow Fr	noh Caules	Highway Dr.	:	h .			į	;	:	;	1	;	Bucket Stop		•	vas 4 now 5 Inch
77/304 6.54 763 12.56 7.66 69 10.4 50 40.4 Starf and Wade 10 2.15 Filter Guage 0.15 10.28004 6.54 763 12.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 12.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.66 69 10.4 Filter Guage 0.15 10.28004 6.54 763 10.56 7.28004 6.54 763 10.56 7.28004 6.54 7.28004 6.54 7.12 7.12 7.12 7.12 7.12 7.12 7.12 7.12							han a	5/5/04		, e	667	9 89	5 6	137	171.9	Staff and Wade			Overflowing
21.5 Furne Guage 21.5 Furne Guage 31.4004 8.62 712 10.8 10.16 0.2 11.33 Furne Guage 10.2004 Flow measurements dendting E were calculated by using a Depth to Water method. 15.39 Flume Guage	-		-					7/13/04		B.7	99	11.9	10.14	8	404	Staff and Wade	ç		Overflowing
## 12.56 7.66 6.9 10.4 Flume Guage ### 12.50 7.65 6.9 10.4 Flume Guage ### 10.28.0.4 10.5 10.1 10.1 10.1 10.1 10.1 10.1 10.1	-		-					7/28/04							21.5	Flume Guage		0.21	
997 60 60 60 60 60 60 60 60 60 60 60 60 60	-	-		***	-			8/19/04		7.	763	12.58	7.68	69	10.4	Flume Guage		0.15	
Flow massurements denoting E were celculated by using a Depth to Water method.					٠.	-		9/14/04		9.62	712	10.0	10.16	9.5	11.93	Flume Guage		0.5	
100000 100000 100000 100000 100000 100000 100000 100000 100000	-						-	10/26/04		i e	and projection and	e outs	th to Woter	method	13.30	offens sumi		2	
10000 10000	-			-				2	מונפשפחופווופווים פפו	בייון ה	fa popular pia								
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Mnumber Stream Station	Stream	Station	(TRSt)	Latitude	Longitude	Elevation (feet)	Date	Depth to Water (feet)	품	Conductivity (umhos/cm)	Temp (C ₃)	DO (mg/l)	ORP (mv)	Flow (cfs)	Flow Mesurment Method	Stream Conditions
	Belt	Belt	T19N R06E					ì								
214387	Creek	Bridge	28 ABBC	47.387	-110.9289	3510	5/31/02 7/9/02	18.57	8.24	144	13.2		170	613	Fish and Crane	
							00,147	Č	;			1			j	
							9/23/02	20.5	8.14	300 815	24.4	7.96	60.1	58.3	Staff and Wade	
							10/7/02	?	7.21	768	. £			(19.9)	П	
																Creek is to spres
							10/22/02 3/27/03	20.9	6.4	828	4.6	12	181	(9.6)	ши	flow.
							4/24/03	18.9	8.08	174	11.3		202	(280.4)	ш	
							5/14/03	19.32	7.67 8.28	213	14.2	10.74	220	228.3	Fish and Crane	
							50/56/2		7 0	į	2	3	200	(1:36:1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
								r S	?		3		22	o ñ	Stall allo vvade	Creek is to spres
							8/19/03									out to get prope flow.
							9/23/03									Dry except for AN Discharge
	Stream F	low on Be	Stream Flow on Belt Creek at Belt Bridge	•lt Bridge	†	wo!d	10/21/03									Dry except for AN Discharge
t total	1	1	grison.		e dermonador i i h	The summer of th	11/25/03									Dry except for AN Discharge
				y to the second of the second			3/12/04	20.5	6.28	287	4.52	13.24	148	8.5	Staff and Wade	
				a salan-a			4/7/04	20	7.4	348	6.47	13.4	18.6	59.4	Fish and Crane	
				1 Congress of the Congress of	2000		5/5/04	19.1	7.76	163	11.08	11.22	185	(196.9)	ш	Leaves keep stopping meter
			The state of the s	14 aport		T	6/15/04	18	8.33	176	8.09	10.4	168	731.7	Fish and Crane	
							7/14/04	19.8	7.41	278	21.87	8.32	244	121.2	Staff and Wade	
	****						8/19/04	20.3	8.05	439	18.88	7.64	196	(25.4)	ш	
	estable to			to shadow to messure]	9/15/04 Flow meas	ZU.5 urements deno	7.95 ting E w	9/19/04 ZU.5 7.95 5/2 11.5/ 8.93 -111: Flow measurements denoting E were calculated by using a Depth to Water method.	71.57 ing a Deptl	8.93 I to Water n	-115 lethod.	(18.5)	ш	
ZOVICA ZOVICA	20/05/	507.05	501.F	50/06	HOLE	POIDE										
Z				/1	,	,										

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Stream Stream Stream CTSS Liftblide Longitude Check					Location			Elevation		Denth to		Conductivity	Temn	2	200	Flore	Flow Meanmant	Streams
### Private TibN RibE 2 47.4414 -110.9225 3440 513102 12.32 8.04 153 12.3 13.08 871 73.6 47 73 6	### Tibil Ridge ACAO 47.4414 -110.9225 3440 513102 112.32 8.04 153 12.3 130.8 25.1	Mnumb	er Stream	Station	(TRSt)		Longitude	(feet)	Date	Water (feet)		(umhos/cm)	<u>(</u> ပ	(mg/l)	(mv)	(cfs)	Method	Conditions
### Bell Creek Birlings AGAD 474414 -110,8225 3440 1537102 13.68 844 153 123 10.08 721 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 25.7 8.17 73.6 47 171 1717/22 144 8.51 350 354 4.19 14.	Stream Flow on Bait Creek Bridge ACAD 47,4414 -110,9225 3440 513102 1232 1308 571			Private	T19N R06E	2												
7/19/22 1414 8.51 350 15.9 165.1 17.0 14.7 14.1	7/19/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (64-1) 7/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (64-1) 9/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (64-1) 9/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (13-7) 9/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (13-7) 9/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (13-7) 9/17/22 14-14 8-51 3-50 15-5 8-17 7-3-6 (13-7) 9/17/22 14-14 8-51 3-5 8-17 7-3-6 (13-7) 9/17/22 14-14 8-7 7-3-6 8-17 7-3-6 7-3-7 7-3-6 7-3-7 7-3-6 7-3-7 7-3-7 7-3-6 7-3-7 7	214389		Bridge	ACAD	47.4414	-110,9225	3440	5/31/02	12.32	8.04	153	12.3		130.8	721	Fish and Crane	
Stream Flow on Bait Creak at Private Bridge North of Bait	Stream Flow on Belt Creek at Private Bridge North of Belt Flow measurements denoting E were calculated by using a Depth to Watter method. 17/7/202								7/9/02	13.69	8.44	290	15.9			(58.1)	ш	
991102 14.8 14.7 14.9 1 14.1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 11.24 247.9 14.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Stream Flow on Balt Creak at Private Bridge North of Belt								7/17/02	14.14	8.51	350	25.7	8.17	73.6	47	Staff and Wade	
Stream Flow on Balt Creak at Private Bridge North of Balt	Stream Flow on Bait Creak at Private Bridge North of Bait								9/11/02	14.8						(11.3)	ш	
1012/2012 14.17 515/103 12.8 8.21 214 11 11.24 247.9 341.6 515/103 12.8 8.34 430 22.7 220 2.1 612/103 12.8 8.34 430 13.9 13.9 13.9 13.9 13.9 13.9 13.9 13.9	Stream Flow on Bart Creek at Private Bridge North of Bart								9/23/02	14.91		484	14.4			(9.7)	ш	
Stream Flow on Belt Creek at Private Bridge North of Belt	Stream Flow on Balt Creek at Private Bridge North of Belt								10/22/02	14.72						(12.7)	ш	
515.003 128 8.21 214 1124 2479 3416 512.003 15 8.20 227 220 2.1 612.003 15 8.20 4.19 14.19 134 12.9 517.004 15 8.34 4.30 227 220 2.1 617.004 15 8.36 354 4.19 14.19 134 12.9 517.004 15 8.22 442 168 11.15 10.47 150 789.9 517.004 15 8.22 442 15.38 9 162 (8.5) 517.004 15 8.22 442 15.38 9 162 (8.5) 517.004 15 8.22 442 15.38 9 162 (8.5)	Stream Flow on Balt Creek at Private Bridge North of Balt								3/27/03	14.45						(18.7)	ш	
Stream Flow on Belt Creek at Private Endage North of Belt	Stream Flow on Belt Creek at Private Bridge Morth of Belt								5/15/03	12.8	8.21	214	=	11.24	247.9	341.6	Fish and Crane	
Stream Flow on Balt Creak at Private Bridge North of Balt	Stream Flow on Balt Crack at Private Bridge North of Balt								7/23/03	14.8	8.34	430	22.7		220	2.1	Staff and Wade	
Stream Flow on Belt Creek at Private Bridge North of Belt	Stream Flow on Balt Creak at Private Bridge North of Balt								8/20/03	15						(8.5)	ш	
Stream Flow on Belt Creek at Private Bridge North of Belt	Stream Flow on Balt Creek at Private Bridge North of Balt								9/25/03	15.2						(6.5)	ш	
Stream Flow on Belt Creek at Private Bridge North of Belt	Stream Flow on Bait Creek at Private Bridge North of Bait								3/12/04	14.7	7.86	354	4.19	14,19	134	12.9	Staff and Wade	
200	200		Change Ele	4	And Defend	The State of the safe of		- Flore	4/7/04	14.2	8.38	367	8.76	13	237	48.4	Staff and Wade	
6016/04 11.6 8.42 188 11.15 10.47 150 789.9 77/14/04 13.8 8.51 264 23.2 8.6 184 116.7 81/18/04 14.8 8.22 442 15.38 9 162 (11.3) 900 900 900 900 900 900 900 9	600 Fig. 11.15 10.47 150 789.9 7/14/04 13.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 16.8 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6			2 Head 120 W	FOOK SE PRIVACE	te Bridge North o		Measurment	5/6/04	12.7						(208.9)	ш	
7714/04 13.8 8.51 264 23.2 8.6 184 116.7 8/18/04 14.8 8.51 264 23.2 8.6 184 116.7 8/18/04 14.8 8.22 44.2 15.38 9 16.2 (8.5) 8/18/04 14.8 8.22 44.2 15.38 9 16.2 (8.5) 8/18/04 14.8 8.22 44.2 15.38 9 16.2 (8.5) 8/18/04 14.0 Water method.	77/14/04 13.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.51 264 23.2 8.6 184 116.7 8/16/04 14.8 8.22 442 15.38 9 162 (8.5) 8/16/04 14.8 8.22 442 15.38 9 162 (8.5) 8/16/04 8	L 000	-		resid in differencemen. When	The state of the s	*		6/16/04	11.6	8.42	188	11.15	10.47	150	789.9	Fish and Crane	
8/18/04 14.8 8/18/04 14.8 9/14/	90000 11.30 87.800 14.8 8.22 442 15.38 9 162 (8.5) 8.000 11.30 9.000 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.01.00 15.30 9.000 15.		•			nin .			7/14/04	13.8	8.51	264	23.2	89	184	116.7	Staff and Wade	
90/14/04 15 8.22 442 16.58 9 162 (8.5) 100/05 2	500 000 15.38 9.74 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	100		1					8/18/04	14.8						(11.3)	Ш	
Flow measurements denoting E were calculated by using a Depth to Water method. Flow measurements denoting E were calculated by using a Depth to Water method. Flow measurements denoting E were calculated by using a Depth to Water method. Flow measurements denoting E were calculated by using a Depth to Water method.	FOW The assurements denoting it were calculated by using a Depth to Water method and the colonial in the colon			4140.	. whom				9/14/04	15	8.22	442	15.38	on	162	(8.5)	ш	
100006 1001000 1001000 1001000 1001000 1001000 100100	100006 100162 100162 100006 10		1		-		-		Flow measur	rements denoti	DO F We	re calculated by usin	to a Depth to	Water me	thod			
100 E/Z 100 E/	1001677 1001678 100167					n -en					l D	(-	D.					
1001624 1001626 100001 100001 100001 100001 100001 100001 100001 1000006 1001624 1000006 1001624 1000006	1001677 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001 100001		+ + + + + + + + + + + + + + + + + + + +		1-	***		+-										
100/12/2 100/12	1000001 1000001 1000001 1000001 1000001 1000001 1000001 1000000				***			**************************************										
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#0/16/2 #0/16/5 #0/16/6 #0/16/	HOYIE/S HOYIE/S	500	†	+ + + - + -	<u>}-</u>	+	-+-	-										
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#0/16/2 #0/16/5 #0/16/6 #0/	MOVERY MOVERE MO	80					1	7										
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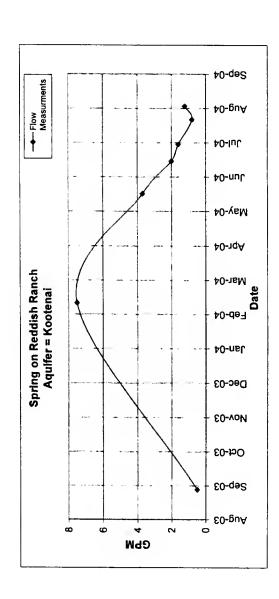
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Spring on Larson Ranch Spring on Larson Ra	Location (TRSt)	Lettrode	Longitude	Aquifer	Elevation (feet)	Date	표	Conductivity (umhos/cm)	Temp (C)	DO (mg/l)	ORP (mv)	Flow (gpm)	Flow Mesurment Method	Nitrate	Spring
Spring on Larson Ranch Aquifer = Kootenai Aquifer = Kootenai Pri 804 Spring on Larson Ranch Aquifer = Cootenai Aquifer = C	T19N R06E 34 ACDB		-110.9463	217SNRS	3880	9/24/03	7.46	528	11.31	8.57	234	0.33	Bucket Stop Watch		
7/1804 6.02 512 10.22 6.56 255 0.88 Buckel Stop Watch						6/17/04	5.3	583	8.73	7.1	281	3,53	Bucket Stop Watch	70	Overnow running everywhere
Spring on Larson Ranch Aquifer = Kootenai Aquifer = Kootenai Aquifer = Kootenai Ang-04 Abp-04						7/18/04	6.02	512	10.22	6.58	255	0.88	Bucket Stop Watch	10 to 20	
Spring on Larson Ranch Aquifer = Kootenai Mar-O4 May-O4 May						8/19/04	7.9	514	10.73	7.47	261	0.68	Bucket Stop Watch		
Spring on Larson Ranch Aquifer = Kootenai Aquifer = Kootenai Aquifer = Kootenai Aquifer = Messuments Aquifer = Mov-04 Aquifer = Mov-						9/15/04						0.63	Bucket Stop Watch		
Spring on Largon Ranch Aquifer = Kootenal Aquifer = Kootenal Apr-04 Apr-						10/29/04						0.38	Bucket Stop Watch		
Dec-03 Dec-03 Jan-04 Mar-04 May-04 Jun-04 Aug-04 Aug-04 Aug-04 Aug-04 Aug-04		ďS	ring on Lars	on Ranch				-Flow Measuments							
Dec-03 Dec-03 Jan-04 Feb-04 Mar-04 May-04 Jun-04 Lun-04 Lun-04 Lun-04 Lun-04 Lun-04 Lun-04		no other property and co	A CANADA	- \	-	and the same of th	Contraction on Special	The manufacture of the state of							
Dec-03 Dec-03 Jan-04 Feb-04 May-04 Jun-04 Jun-04 Aug-04 Aug-04 Aug-04 Aug-04 Aug-04				.9		-		a tabasa							
Dec-03 Dec-03 Jan-04 Feb-04 May-04 Jun-04 Jun-04 Jun-04 Jun-04 Sep-04															
Mar-04 - 100v-03 - 100v-03 - 100v-03 - 100v-04 - 100v-04 - 10v-04						.									
	- 60-voN		Mar-04	+0-14A											

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Mnumber	Stream	Station	Location Mnumber Stream Station (TRSt)	Latitude	Latitude Longitude Aquifer	Aquifer	Elevation · (feet)	Date	H _H	Conductivity (umhos/cm)	Temp (C*)	Temp ORP (C*) DO (mg/l) (mv)	ORP (mv)	Flow (gpm)	Flow Mesurment Method	Nitrate	Stream
	Reddish		18N R06E 14														
214395	Spring	Spring Lower	CABA	47,3198	-110.9298	217CBNK	3940	9/26/03	7.85	200	12.93	8.65	530	0.5	Bucket Stop Watch		
	-								6,18	396	6.2	14.65	302.1	7.5	Bucket Stop Watch		
									6.79	440	10.11	9.29	302	3.7	Bucket Stop Watch		
								7/14/04						2	Bucket Stop Wetch		
								7/29/04						1.6	Bucket Stop Watch		
								8/20/04						9.0	Bucket Stop Watch	2	
								9/1/04						1.22	Bucket Stop Watch		



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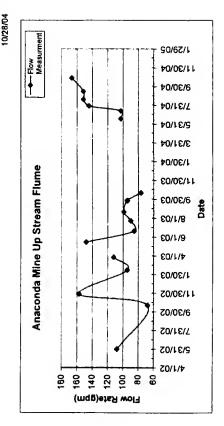
Appendix D

AMD Hydrographs & Field Measurements

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Anaconda AMD Up Mine Drain Stream T19N R08E 26 At Culvert Flume CAAA	E 26 47.381		(Teet)	Date	Water (feet)	Ŧ	(umhos/cm)	હ	DO (mg/l)	(mv)	(mdb)	flume	Method	Conditions	
		-110.9292	3540	5/31/02	6.0	2.55	2000	11.5			107.78		Staff and Wade		
				10/21/02	98.0	2.78	2440	Ξ	2.39	408	87.35		Staff and Wade		
				11/27/02	6.0	2.85	2280	10	1.6	407	157.15		Staff and Wede		
				2/13/03	0.82	2.87	2400	10.4	1.91	415	94.29		Staff and Wade		
				3/27/03	0.8	2.63	2220	10.3	9.	409	112.25		Staff and Wade		
				4/24/03		2.97	2119	10.5		415			Staff and Wade		
				5/15/03	0.82	2.95	2260	10.9	1.7	415	148.17		Staff and Wade		
				8/20/03	6.0	3.24	2360	10.5	1.87	411	85.31		Staff and Wade		
				7/23/03	0.86	2.7		10.02		413	89.8		Staff and Wade		
				8/21/03	6.0	2.7	2070	10.9	2.09	408	98.78		Staff and Wade		
				9/26/03	6.0	2.85	2485	10	1.79	438.2	94.29		Staff and Wade		
				10/21/03	0.87	3.01	2471	9.99	1.75	432	76.33		Staff and Wade		
				11/25/03	0.85	2.86	2438	9.85	-	440				Did not measure	
				2/6/04	0.81	2.95	2348	9.91	3.3	439				Did not measure	
				3/12/04		2.6 2.70	2407	9.78	0.94	438				Did not measure	
				5/5/04		2.86	2442	9.89	1.07	434				Did not measure	
				8/17/04		2.91	2343	9.74	6.0	432	102.86	0.42	Flume		
				7/13/04		2.73	2369	9.85	-	433	102.86	0.42	Flume		
				7/29/04		2.98	2378	9.88	1.08	428	144.6	0.47	Flume		
				8/19/04		2.74	2413	9.94	2.49	426	151.7	0.48	Flume		
				9/14/04		2.98	2455	9.97	.73	440	151.7	0.48	Flume	Somelod	



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	Mnumber	AMD	Station	Location (TRSt)	Latitude	Longitude	Elevation (feet)	Date	푭	Conductivity (umhos/cm)	Temp (C*)	DO (mg/l)	ORP (mv)	Flow (gpm)	Flow Mesurment Method	
		French Coulee	1	Below Pond East side of T19N R16E 26												-
	200615	Discharge	RR tracks	CADD	47.3782	-110.9278	3550	10/7/02	2.39	4400	12.8				Bucket Stop Watch	
								10/21/02	2.53	4180	10.5	3.93	442	7.5	Bucket Stop Watch	
								2/13/03	2.43	4400	7.2	3.5	426	9	Bucket Stop Watch	
								3/27/03	2.67	4320	7.9	4.2	426	8.5	Bucket Stop Watch	
								4/24/03	3.12	3520	10.5		415	60'6	Bucket Stop Watch	
								5/15/03	2.68	4150	11.3	4.99	443	7.89	Bucket Stop Watch	
								6/20/03	2.69	3160	12.1	4.54	438	8.57	Bucket Stop Watch	
								7/23/03	2.64		4		444	10.71	Bucket Stop Watch	
								8/19/03	2.91	4600	15.2		442	8.57	Bucket Stop Watch	
								9/22/03	2.58	5764	12.31	4.7	457.4	7.5	Bucket Stop Watch	
								10/22/03	2.76	4197	10.59	3.46	455	10	Bucket Stop Watch	
								11/25/03	2.43	5875	7.28	4.52	472	8.14	Bucket Stop Watch	
								2/6/04	2.68	0009	6.77	4.84	440	6.84	Bucket Stop Watch	
								3/12/04	5.6	5365	7.42	3.52	445	6.25	Bucket Stop Watch	
D3								4/8/04	2.57	4148	9.12	3.91	469	12	Bucket Stop Watch	
								5/5/04	2.7	4813	9.78	4.12	465	11.15	Bucket Stop Watch	
								6/18/04	2.59	3645	10.71	3.94	480	15	Bucket Stop Watch	
								7/13/04	2.54	5071	12.09	2.61	451	13.63	Bucket Stop Watch	
								7/29/04	2.96	5138	12.69	2.4	444	12	Bucket Stop Watch	
								8/19/04	5.6	5818	13.09	1.99	441	10	Bucket Stop Watch	
								9/14/04	2.67	5898	11.98	2.67	461	10	Bucket Stop Watch	
		Flow from	Flow from French Coulee AMD	lee AMD		Flow Measurments	irments	10/28/04	3.21	5935	9.6	3.06	434	5	Bucket Stop Watch	
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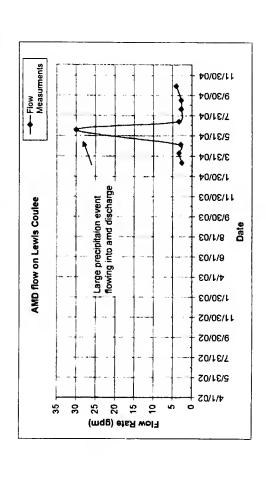
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Nitrite		1.5 to 3.0	
Nitrate		2 1.5-3.0	
Other Conditions			
Flow Mesurment Method	Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch	Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch Bucket Stop Watch	
Flow (gpm)	1.3 0.6 0.76 0.76	0.88 0.83 1.02 1.22	
ORP (mv)	507.8 494 509 499 491 488	475 475 473 477	
DO (mg/l)	7.31 7 9.2 8.85 8.5	6.3 6.3 6.56 5.59 7.22 8.79	
Temp (C°)	12.05 8.47 7.51 8.3 9.45	11.93 12.54 12.18 11.39	Measuments Measuments
Conductivity (umhos/cm)	7322 7438 7397 7215 7203 7203	6888 6838 7087 7085 7066	\$0/16/1 \$0/06/6
Ħ	2.11 2.28 1.88 2.12 2.4 2.32	2.24 2.24 2.24 2.81	PO/15/E
Date	9/22/03 11/25/03 2/8/04 3/10/04 4/8/04 5/5/04	7/13/04 7/29/04 8/19/04 9/14/04 10/28/04	90/0E/L
Elevation (feet)	3560		AMD Flow at French Coule
Location (TRSt)	719N R16E 26 CADC		E0/1/9
Station	French coulee 4" pvc pipe AMD		20/02/L
AMD	French Coulee Discharge	,	20/15/5
Mnumber	217524 F		4)1/05 G PM

Date

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Other Conditions					30 gpm runnoft water	feeding into mine				Sampled
ŧ		_	ے	_			_	_	£	£
Mesurment Method		Bucket Stop Watch	Bucket Stop Watch	Bucket Stop Watch		Bucket Stop Watch	Bucket Stop Watch	Bucket Stop Watch	Bucket Stop Watch	Bucket Stop Watch
Nitrate						s				
Flow (gpm)		5.6	3.33	2.89		30	3,33	2.72	2.72	4
ORP (w)		334	304	284		7	325	396	380	367
ORP DO (mg/l) (mv)		90.6	90.9	5.2		10.09	4 .9	5.25	7.64	5.22
Temp (C)		9.54	12.5	9.85		9.41	14.47	17.44	11.62	9.25
Conductivity (umhos/cm)		3806	3735	3575		1132	3201	3741	3423	3791
표		3.6	3.54	3.8		7.03	3.62	3.05	3.85	3.78
Date		3/11/04	4/9/04	5/5/04		6/18/04	7/13/04	8/19/04	9/15/04	10/28/04
Elevation (feet)		3540								
Latitude Longitude		-110.9193								
Lattude		47,388								
Location (TRSt)		AACD								
Station	Lewis Coulee at first AMD	flow								
AMD	Lewis	Coulee								
Mnumber AMD Station		214915								



			Location		Elevatic	Elevation			Conductivity	Тетр	8	ORP	Flow	Other
Mnumber	AMD	Station	(TRSt)	Latitude	Longitude (feet)	(feet)	Date	표	Date pH (umhos/cm) (C°) (mg/l) (mv) (gpm)	(ပ္	(I/gm)	(mv)	(mdb)	Conditions
214914	AMD at Lewis Coulee above Castner Park	s AMD at 3rd and Lewis street in Belt	T19N R06E 26 ACAA	47.3848	-110.9223	3520	10/28/04 2.77	2.77	5319	9.04	2.67	427.7	2.67 427.7 2 estimate	sampled

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Appendix E

Water-Quality Data

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	Gwic ld Site Name	Water Source	4g/l) K (mg/	ı, E	o (ma/l) M	n (ma/l) S	iO2 (mg/l) HC(03 (mn/l) CO	3 (ma/l) SO:	4 (ma/i)
2005Q0283	214915 AMD AT LEWIS COULEE	AMD	7.6	0.523	672	1.07	105	0	0 (111911)	5100
2005Q0287	214914 AMD 3RD AND LEWIS STREET IN BELT	AMD	15.1	6 97	558	1 23	69 9	0	a	3618
2003Q0848	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	10.3	3.24	166	0.403	52.6	٥	0	1920
2003Q0866	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	0.5	3.3	173	0.5	52 5	0	0	1934
2003Q1018	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	40.9	2.83	150	0.363	49.9	0	0	1900
2003Q1079	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	0.8	28	143	0.375	52 5	a	а	1523
2003Q1163	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	10.7	2.92	168	0 426	53.2	a	0	1606
2004 Q0029	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	0.5	2.98	155	0.426	53	0	0	1610
2004Q0103	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	10.5	3.15	169	0.435	53.8	0	0	1851
2004Q0147	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	40.2	3.16	174	0.412	57.3	0	0	1905
2004Q0241	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	199	3.14	173	0 411	58.5	0	0	2025
2004Q0470	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	111	2.93	120	0 406	54 9	0	0	1916
2004Q0574	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	10.5	2.85	83.1	0.406	56 3	0	0	1510
2005Q0075	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	9 11	3.28	103	0.428	58.5	0	0	1580
2005Q0288	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	908	3.21	171	0 433	59.1	a	0	1663
2005Q0358	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	90.8	3.08	174	0.44	56 9	0	0	1921
2005Q0419	200618 ANACONDA MINE DRAIN AT CULVERT 200615 FRENCH COULEE MINE	AMD	90.1	2.68	156	0.395	54	0	0	2099
2003Q0846	200615 FRENCH COULEE MINE 200615 FRENCH COULEE MINE	AMD AMD	11.7	5 4	1050	0 963	101	0	0	7990
2003Q0865 2003Q1020	200615 FRENCH COULEE MINE	AMD	92.2	5.37	989	0.988	97 6	0		6975
2003Q1020 2003Q1081	200615 FRENCH COULEE MINE	AMD	13.5	4.2	808	0 703	90	0 0	0	6198 4400
2003Q1001 2003Q1164	200615 FRENCH COULEE MINE	AMD	47.6	3.38	665	0.531	85 2	0	0	5226
2004Q0031	200615 FRENCH COULEE MINE	AMD	46.6	3.34	761	0.65	89.8	0	0	5750
2004Q0095	200615 FRENCH COULEE MINE	AMD	44 4	2.82	821	0.833	103 106	0	0	6891
2004Q0149	200615 FRENCH COULEE MINE	AMD	13.8	4.15	843	0.888 0.902	105.4	0	0	7133
2004Q0235	200615 FRENCH COULEE MINE	AMD	43.2 <5.0	2.66	929	1 03	109	0	0	8152
2004Q0472	200615 FRENCH COULEE MINE	AMD	90.8	3.65	1185	0 528	83.2	0	0	4799
2004Q0572	200615 FRENCH COULEE MINE	AMD	19.3 12.9 < 0.50	3.28	673 950	1.52	160	0	ā	7350
2005Q0077	200615 FRENCH COULEE MINE	AMD	44.7	3.75	1078	0.959	108	0	Ö	6244
2005Q0356	200615 FRENCH COULEE MINE	AMD	42.5	4.47	1169	1.08	117	0	ā	7878
2005Q0417	200615 FRENCH COULEE MINE	AMD	42.6	5.59	1227	1.02	105	o	0	8694
			2.0	3.55	1221	1.02	, , ,		-	
2005Q0081	213598 PLEASANT VALLEY SPRING * OLD HARRI	217SBRS	4.37	1.56	0.008 <	0.001	8.09	285.48	0.867	20
2005Q0352	213598 PLEASANT VALLEY SPRING * OLD HARRI	217SBRS	4.34	1.94	0.000	0.002	7.62	3096	6	26 3
2004Q0025	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217SBRS	41.7	11	0.889	0.035	10.9	334.3	0	2116
2004Q0090	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217SBRS	439	11.5	0.534	0.033	10.7	494 1	0	2105
2004Q0153	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217SBR\$	43.2	11.2	0.44	0 042	10	407.5	0	2105
2003Q0850	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4.65	172	0.384	0 068	9	344.7	0	72 7
2003Q0863	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4.17	2.74	0 646	0.042	86	258 9	0	39 5
2003Q1024	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	49.1	1 76	0.156	0 066	8 21	322.5	0	64 9
2003Q1083	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4 11	2.39	0.047	0.083	9.56	356.2	0	105
2003Q1165	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4 11	2.96	0.039	0.093	10.6	379.4	0	108.4
2004Q0027	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	46.5	4.59	0.698	0.147	13.3	411.5	0	457
2004Q0099	200617 FRENCH COULEE * HIGHWAY DRAIN	217\$BR\$	40.1	5 82	2 12	0.196	12 4	351.4	0	706
2004Q0151	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	43.6	2.32	0.035	0.108	12.4	393.3	0	198
2004Q0474	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4 12	2.33	0.026	0.067	98	348.6	0	91.1
2 00 4Q0570	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4.87	2 58	0.024	0.034	10.7	317.2	0	68 1
2005Q0079	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	4.38	2.36	0.007	0.041	12.8	351.36	0	86
2005Q0354	200617 FRENCH COULEE * HIGHWAY DRAIN	217\$BRS	4.25	2.16	2 59	0 066	12.1	338.3	0	81.2
2005Q0415	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	43.86	1.8	0 178	0.027	8.98	34 1.9	0	59.2
2004Q0101	205653 JOHN HARRIS RANCH * SPRING	217SBRS	4.96	2.31	0.019	<0 001	8.35	314.8	0	36.2
2004Q0157	207767 HARRIS JOHN * POND	217SBRS	7.66	2.36	0.056	0.01	11.7	278.5	0	39
2004Q0233	205653 JOHN HARRIS RANCH * SPRING	217SBRS	4 6.4	1.56	0 021	0.001	7.6	316.5	0	37.1
2004Q0159	204516 JIM LARSON	217SBRS	4.69	0.84	0.011	<0.001	10.7	270.1	0	14.7
202402642	205030 DELT 00551/	DCI T OOCCI								
2004Q0110	205836 BELT CREEK	BELT CREEK	4 4.4	1.61	0.027	0.095	7.07	157.4	0	54.7
2004Q0114	205839 BELT CREEK	BELT CREEK	4.97	1.67	0.028	0.006	9.52	212.6	0	49.9
2004Q0112 2004Q0091	205838 BELT CREEK	BELT CREEK	\$ 27	1.85		0.003	8 39	217 9	0	46.5
2004Q0091 2005Q0285	205508 BELT CREEK * E OF TOWN WELL #2	BELT CRK @CITY WELL	p.10	1.79	0.036	0.005	9.27	227.2	0	64 8
2005Q0284	214916 BELT CREEK AFTER LEWIS AMD DRAIN	BELT CRK @LEWIS	46.77	2.45		0.075	9.49	134.8	0	201
2005Q0284 2005Q0282	214911 BELT CREEK AL ABOVE SWIM HOLE 214913 BELT CREEK AT NORTH SLAG EXTENT	BELT CRK @SWIM BELT CRK @NSLAG	5.04	1.78		0.375	8.35	32.9	0	344
2003Q0282 2003Q1087	203451 LOWER BOX ELDER CREEK * BELOW JH	_	45.47	1.88	6.01	0.074	11.9	148.7	0	193
2003Q1087 2003Q1182	203451 LOWER BOX ELDER CREEK * BELOW JH		410.4	2.7		0 085	12.8	355.4	0 0	49.3 45.6
2004Q0478	203451 LOWER BOX ELDER CREEK * BELOW J H		410.1	2-29		0 035	16.7	358.7	0	
2005Q0411	203451 LOWER BOX ELDER CREEK * BELOW J H		40.7	3.08		0 008	3.14	315.1		56.8
2003Q0411 2003Q1085	203450 UPPER BOX ELDER CREEK * LARSON RA		⁴ 9.88	2.4		0.022	8.48	370.4	a 0	44.2 59.2
2003Q1063 2003Q1166	203450 UPPER BOX ELDER CREEK * LARSON RA		⁴ 11.2	2.93		0.052	9 17	351	U	39.2
2004Q0033	203450 UPPER BOX ELDER CREEK LARSON RA		4 _{11.3} 4 _{11.9}	2.62		0.032	12.8	287.3	0	53.5
2004Q0097	203450 UPPER BOX ELDER CREEK * LARSON RA			2.37		0.024	11.8	330.01	0	40.6
2004Q0155	203450 UPPER BOX ELDER CREEK * LARSON RA		⁴ 9.91	2.18		0.023	12.1 11.7	330.01	0	40.4
2004Q0733	203450 UPPER BOX ELDER CREEK * LARSON RA		⁴ 9.68	2.47		0 046	11.7	326.6 357.5	0	51.2
2004Q0476	203450 UPPER BOX ELDER CREEK * LARSON RA		⁴ 10.3	2.3		0.042	6.13	389.6	0	66.7
2005Q0350	203450 UPPER BOX ELDER CREEK * LARSON RA		414.6	4.06		0.019	11.8	401.1	0	50.1
2005Q0413	203450 UPPER BOX ELDER CREEK * LARSON RA		411.5 4 10	2.86		0.023	11.8	335.5	0	49.8
2005Q0286	214386 BELT CREEK AT ARMINGTON BRIDGE IN		a) 10	2.21		0.027	8.96	219.1	0	74.6
			4 4.5	1.39	0.012	0.004	0.50	2.0.1	v	, 4.0
2004Q0166	196148 REDDISH GARY	330MDSN	⁴ 5.32	1.79	0.043	0 004	8.46	277.6	0	53.1
			5.52	1.73	. 5,5-0	200-				

	Gwic ld Site Name	Water Source	Latitude Longitude Geomethi	od Datum Location (TRS) Count	ty State	Site Type	Depth (ft) Agency	Sample Date V	Vater Temp Fi	eld pH Lab o	DH Field SC	Lab SC CD	S (mo/l) Ca	(ma/l) Ma	(mg/l) Na	(ma/l) K (mi	0/3) Fe i	mg/l) Mn (mg/l) Si()2 (mg/l) HCC	3 (ma/l) CO3	(mall) SO4	(mall)
2005Q0283	214915 AMD AT LEWIS COULEE	AMD	47 386 -110 92 NAV-GPS	NAD83 19N06E26AACD CASC	CADE MT	MINE DRAINAGE		10/28/2004 16 00	9 25	3 78 3			6,728	226	152	27 6	0 523	672 1 07	105	0	0	5100
2005Q0287	214914 AMD 3RD AND LEWIS STREET IN BELT	AMD	47 3848 -110 922 UNKNOW	N NAD83 19N06E26ACAA CASC	CADE MT	MINE DRAINAGE	MBMG	10/28/2004 17 30	9 04	277 3	3 1 5319	3660	4873	203	147	25 1	6 97	558 1 23	69 9	0	0	3618
2003Q0848	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	47 3788 -110 931 TRS-TWM	NAD27 19N06E26BDCD CASC	CADE MT	MINE DRAINAGE	MBMG	1/30/2003 11 30	9.8	2 99 3	01 2290	2285	2471	148	88 6	10 3	3 24	166 0 403	52 6	0	0	1920
2003Q0866	200616 ANACONDA MINE DRAIN AT CULVERT	AMO		NAD27 19N06E26BDCD CASC			MBMG	3/15/2003 11 15	10 7	3 01 2	97 2220	2279	2521	164	70 4	10 5	3.3	173 0.5	52 5	0	0	1934
2003Q1018	200616 ANACONDA MINE DRAIN AT CULVERT	AMO	47 3788 -110 931 TRS-TWN	NAD27 19N06E26BDCD CASC	CADE MT	MINE ORAINAGE	MBMG	4/22/2003 15 45	7.5	289 2	95 2260	2265	2430	153	69 7	10 9	2 83	150 0 363	49 9	0	0	1900
2003Q1079	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	47 3788 -110 931 TRS-TWN	NAD27 19N06E26BDCD CASC	CADE MT	MINE DRAINAGE	MBMG	5/28/2003 18 30	11.3	2 84 3	03 2350	2120	2043	140	87.5	10.8	2.8	143 0 375	52 5	0	0	1523
2003Q1163	200616 ANACONDA MINE DRAIN AT CULVERT	AMO	47 3788 -110 931 TRS-TWN	NAD27 19N06E26BDCD CASC	CADE MT	MINE DRAINAGE	MBMG	6/18/2003 11 50	99	2 51 2	88 1425	2080	2184	156	72 5	10.7	2 92	168 0 426	53 2	-0	0	1606
2004@0029	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	47 3788 -110 931 TRS-TWN	NAD27 19N06E26BDCD CASC	CADE MT	MINE DRAINAGE	MBMG	7/17/2003 17 45		2	79	2090	2180	162	73.3	10 5	2 98	155 0 426	53	0	0	1610
2004Q0103	200616 ANACONDA MINE DRAIN AT CULVERT	AMD	47 3788 -110 931 TRS-TWN	NAD27 19N06E26BDCD CASC	CADE MT	MINE DRAINAGE	MBMG	8/19/2003 16 30	9 9		2 8 2 355	2290	2434	150	72	10 5	3 15	189 0 435	53 8	0	0	1851
2004 Q0147	200616 ANACONDA MINE DRAIN AT CULVERT	AMO		NAD27 19N06E26BDCD CASC			MBMG	9/18/2003 18 45	9 94	27 2		4000	2496	155	69 3	10 2	3 16	174 0 412	57 3	0	0	1905
2004Q0241	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC			MBMG	10/23/2003 16 20	9 9 1	2 99 3			2620	168	71.2	9 9	3 14	173 0 411	58 5	0	0	2025
2004/20470	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC		MINE DRAINAGE	MBMG	4/24/2004 15 20	9.8	28 3			2475	163	73 5	11	2 93	120 0 406	54 9	0	0	1916
2004Q0574	200616 ANACONDA MINE DRAIN AT CULVERT	AMO		NAD27 19N06E26B0C0 CASC		MINE ORAINAGE	MBMG	6/24/2004 16 50	11 91	2 75 3			2003	154	72 3	10.5	2 85	83 1 0 406	56 3	0	0	1510
2005Q0075	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC		MINE ORAINAGE	MBMG	8/12/2004 14 30	9 9		28 2465		2094	163	72 3	11	3 28	103 0 428	58 5	0	Q	1580
2005Q0288	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC			MBMG	10/28/2004 11 30	9 94	2 83 3			2264	177	729	10.8	3 21	171 0 433	59 1	0	0	1663
2005Q0358	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC		MINE DRAINAGE	MBMG	2/3/2005 16 25			13	2340	2514	167	72 6	10.8	3 08	174 0 44	56 9	0	0	1921
2005@0419	200616 ANACONDA MINE DRAIN AT CULVERT	AMD		NAD27 19N06E26BDCD CASC		MINE DRAINAGE	MBMG	4/8/2005 12:45			16	2220	2456	150	88 3	10 1	2 88	156 0 395	54	0	0	2099
2003@0846	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CDDB CASC		MINE DRAINAGE	MBMG	1/29/2003 14 00	7	27 2			10057	271	117	11.7	5 4	1050 0 963	101	0	C	7990
2003Q0865	200615 FRENCH COULEE MINE	AMD		NAD27 19N06E26CDDB CASC			MBMG	3/15/2003 10 45	7.2	2 68 2			8960	284	122	12 2	5 37	989 0 988	97 6	0	0	6975
2003 🖸 1020	200615 FRENCH COULEE MINE	AMD		NAD27 19N06E26CDDB CASC			MBMG	4/22/2003 14 55	9 7		2 7 4660		7877	246	111	13.5	4 2	808 0 703	90	0	0	6198
200301081	200815 FRENCH COULEE MINE	AMD		NAD27 19N06E26CDDB CASC			MBMG	5/28/2003 18 00	12 2	2 62 2	-		5814	208	103	17.6	3 38	685 0 531	85 2	0	0	4400
200301164	200615 FRENCH COULEE MINE	AMD		NAD27 19N06E26CDDB CASC			MBMG	6/18/2003		_	66	4030	8824	241	114	16 6	3 34	781 0.65	89 8	0	0	5228
2004 Q0031	200615 FRENCH COULEE MINE	AMD		NAD27 19N06E26CDDB CASC			MBMG	7/17/2003 17 10			2 4	4400	7523	275	126	14 4	2 82	821 0 833	103	0	0	5750
2004Q0095	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CDDB CASC			MBMG	8/19/2003 16 00	14 3	2 36 2			8770	277	122	13.8	4 15	843 0 888	106	0	G	689*
2004Q0149	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CDDB CASC			MBMG	9/18/2003 19 05	113	2 4 1 2			9072	279	126	132 <50		929 0 902	105 4	0	O.	7133
2004Q0235	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CDDB CASC			MBMG	10/23/2003 15 50	103	2 73 2			10491	293	127	10.8	3 65	1185 1 03	109	0	0	8152
2004Q0472	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CODB CASC			MBMG	4/24/2004 15 45	10 2		95 4080		6190	198	108	19 3	3 28	673 0 528	83 2	0	0	4799
2004Q0572	200615 FRENCH COULEE MINE	AMD	47 3722 -110 93 TRS-TWN	NAD27 19N06E26CDDB CASC	CADE MT	MINE DRAINAGE	MBMG	6/24/2004 18 00	12 23	1 75 3	14 4090	5510	9697	436	177	12 9 < 0 5		950 1 5 2	160	0	0	7350
2005Q0077	200615 FRENCH COULEE MINE	AMO	47 3722 -110 93 TRS-TWN	NAD27 19N06E26CDDB CASC	CADE MT	MINE DRAINAGE	MBMG	8/12/2004 15 15	12 2	3 99	4.1 8230		8373	262	129	14 7	3 75	1078 0 959	108	0	C	6244
2005Q0356	200615 FRENCH COULEE MINE	AMO		NAD27 19N06E26CDDB CASC			MBMG	2/3/2005 16 45			29	5760	10198	292	138	12 5	4 47	1169 1 08	117	0	Q	7878
2005@0417	200615 FRENCH COULEE MINE	AMO	47 3722 -110 93 TRS-TWN	NAD27 19N06E26CDDB CASC	CADE MT	MINE ORAINAGE	MBMG	4/8/2005 15 15		2	84	5400	10082	270	135	12 6	5 59	1227 1 02	105	-0	0	8694
2005Q0081	213598 PLEASANT VALLEY SPRING * OLD HARRI	217SBRS	47 4131 -110 972 NAV-GPS		CADE MT		MBMG	8/12/2004 18 40	12.8	971 8			311	48 1	49 6	8 37		0 008 < 0 001	8 09	285 48	0 867	20
2005Q0352	213598 PLEASANT VALLEY SPRING * OLD MARRI	217SBRS	47 4131 -110 972 NAV-GPS	10.0021 .011002.10		SPRING	MBMG	2/4/2005 13 10			3 3 6	637	301	44 3	49 6	9 34	1.94	0 011 0 002	7 62	309 6	6	26 3
2004Q0025	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217S8RS	47 3757 -110 927 NAV-GPS	NAD27 19N06E26 CASC	CADE MT	OTHER	MBMG	7/17/2003 14 15			05	3340	3236	445	364	41 7		0 889 0 035	10.9	334 3	0	2116
2004Q0090	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217SBRS	47 3757 -110 927 NAV-GPS	NAD27 19N06E26 CASC	CADE MT	OTHER	MBMG	8/19/2003 18 10			82	3350	3271	428	352	43 9		0 534 0 033	10.7	494 1	0	2105
2004Q0153	204710 SEEP ON LEFT SIDE OF HIGHWAY DRAIN	217SBRS	47 3757 -110 927 NAV-GPS	NAD27 19N06E26 CASC	CADE MT	OTMER	MBMG	9/19/2003 10 30	10.4	7 4 7	7 68 3510	3520	3258	443	354	43 2		0 44 0 042	10	407 5	0	2105
2003Q0850	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	47.3722 -110 929 TRS-TWA	NAD27 19N06E26CDDA CASC	CADE MT	OTHER	MBMG	1/30/2003 14 10	3 5	7 79 7	7 93 610	659	376	65 3	39 8	9 65	1 72	0.384 0.068	9	344.7	0	72 7
2003Q0883	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19NG6E26CDDA CASC		DTHER	MBMG	3/15/2003 13 15	4.1	7 88 7	7 68 440	494	276	53 8	29	7.17	2 74	0 646 0 042	8 6	258 9	0	39 5
200301024	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS	47 3722 -110 929 TRS-TWI	NAD27 19N06E26CDDA CASO	CADE MT	DTHER	MBMG	4/22/2003 14:00	8.6	7 78 7	7 82 60:	5 607	349	617	37.1	9 1	1 76	0 156 0 066	8 2 1	322 5	0	64 9
2003Q1083	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASC		OTHER	MBMG	5/28/2003 17 25	13 6	8 13 7	7 71 740	784	431	74 1	46 4	11	2 39	0 047 0 083	9 56	356 2	0	105
2003Q1165	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E28CDDA CASC		OTHER	MBMG	6/17/2003 17 45	15 1	7 78 7	7 78 460	699	459	78 8	53 2	11	2 96	0 039 0 093	10 6	379 4	0	108 4
2004 Q0027	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASC		OTHER	MBMG	7/17/2003 14 50			7.8	1412	967	152	103	16.5	4 59	0 698 0 147	13.3	411.5	O	457
2004 Q0099	200617 FRENCH COULEE * HIGHWAY ORAIN	217SBRS		NAD27 19N06E26CDDA CASC		OTHER	MBMG	8/19/2003 17 45	10 6	7 66 7	7 69 796	1508	12634	181	134	20 1	5 82	2 12 0 196	12 4	3514	0	706
2004 Q0151	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA GASO		OTHER	MBMG	9/19/2003 10 05	9 34		8 13 866		586	92 5	64.8	13.6	2 32	0 035 0 108	12.4	393 3	0	198
2004Q0474	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASO		DTHER	MBMG	4/24/2004 18 00	8.3	8 16 8	3 05 62	3 618	417	72	51	12	2 33	0 026 0 067	98	348 6	0	911
2004Q0570	200617 FRENCH COULEF * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASC		DTHER	MBMG	6/24/2004 15 00	12 18	7.3	8.2 58	619	387	76 1	46 2	7.87	2 58	0.024 0.034	10.7	317.2	0	68 1
2005Q0079	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASI		OTHER	MBMG	8/12/2004 16 00	12	97 7	7 78 76:	5 916	439	84 6	50	9 38	2 36	0.007 0.041	128	351 36	0	86
2005Q0354	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBR\$		NAD27 19N06E26CDDA CASI		OTHER	MBMG	2/4/2005 9 55			8 06	653	402	76 1	44 2	9 25	2 16	2 59 0 066	12 1	338 3	0	61.2
2005Q0415	200617 FRENCH COULEE * HIGHWAY DRAIN	217SBRS		NAD27 19N06E26CDDA CASC		OTHER	MBMG	4/8/2005 15 40			B 27	639	361	65 9	41.1	8 86	1.8	0 178 0 027	8 98	341 9	0	59 2
2004Q0101	205653 JOHN HARRIS RANCH * SPRING	217SBRS	47 3663 -110 997 NAV-GPS			SPRING	MBMG	8/19/2003 14 10	1		7 54 56		315	56 7	40.4	7.96	2.31	0.019 < 0.001	6.35	314 8	0	36 2
2004Q0157	207767 HARRIS JOHN * POND	217SBR\$	47 37 -110 992 NAV-GPS			POND	MBMG	9/19/2003 12 15	99		7 97 50		294	51.9	3 8 5	3 66	2 36	0.056 0.01	11.7	278 5	0	39
2004Q0233	205653 JOHN HARRIS RANCH * SPRING	217SBRS	47 3663 -110 997 NAV-GPS			SPRING	MBMG	10/23/2003 13 50	9.5		7 74 56		318	59 4	42 7	6.4	1 56	0 021 0 001	7.6	316.5	0	37 1
2004 Q0159	204516 JIM LARSON	217SBRS		NAD27 19N06E34ACDC CAS			19 6 MBMG	9/24/2003 15 00	11 31		78 52		248	57.5	25 3	4 69	0.84	0 011 <0 001	10 7	270 1	0	14.7
									- '													
2004Q0110	20\$836 BELT CREEK	BELT CREEK	47 3636 -110 906 NAV-GPS	NAD27 18N06E12ABDA CASI	CADE MT	STREAM	MBMG	8/27/2003 10 50	179	7 79	7 83 29	7 428	213	518	14 6	44	1 61	0 027 0 095	7 07	157 4	0	54 7
2004Q0114	205839 BELT CREEK	BELT CREEK		NAD27 18N06E26DBBA CASI		STREAM	MBMG	8/27/2003 15 15	192		7 82 37		248	60 5	15 1	4 97	1 67	0 028 0 006	9 52	212 6	0	499
2004Q0112	205838 BELT CREEK	BELT CREEK	47 3753 -110 918 NAV-GPS	NAD27 18N06E26DDDA CASI		STREAM	MBMG	8/27/2003	18.4	7 22	7 67 37	1 415	242	56 3	15	5 27	1 85	0 04 0 003	8 39	217 9	0	46.5
2004Q0091	205508 BELT CREEK * E OF TOWN WELL #2		L 47 3812 -110 926 NAV-GP	NAD27 19N06E26 CAS		STREAM	MBMG	8/20/2003 12 30	20 9	7 48	7 83 46	0 552	281	69 1	17.1	5 15	1 79	0 036 0 005	9 27	227 2	0	64.8
2005Q0285	214916 BELT CREEK AFTER LEWIS AMO DRAIN	BELT CRK @LEWIS	47 3884 -110 924 NAV-GP	S NAD83 19N06E26ABAB CASI		STREAM	MBMG	10/29/2004 13 45	8 47	7 23	7 28 66	5 674	415	97	27 2	ñ 77	2 45	1 93 0 075	9 4 9	134 8	0	201
2005Q0284	214911 BELT CREEK AL ABOVE SWIM HOLE	BELT CRK @SWIM		NADB3 19N06E2BACCC CASI		STREAM	MBMG	10/28/2004 14 00	10.38	6 84	5 83 63		506	90 4	35 B	6 04	1 75	0 169 0 375	8 35	32 9	0	344
2005Q0282	214913 BELT CREEK AT NORTH SLAG EXTENT	BELT CRK @NSLAG		NADES 19N06E26BDAC CASI		STREAM	MBMG	10/28/2004 16:00	11 29	8 55	7 31 64	5 639	413	92 5	258	6 47	1 88	6 01 0 074	11 9	148 7	0	193
2003D1087	203451 LDWER BOX ELDER CREEK * BELDW J H		47 3779 -110 986 NAV-GP			STREAM	MBMG	5/28/2003 16 45	24 \$	82 8	8 02 68	0 645	371	74 B	376	10.4	27	0.061 0.065	12 8	355 4	0	49 3
200301182	203451 LOWER BOX ELDER CREEK * BELOW JH		47 3779 -110 986 NAV-GP			STREAM	MBMG	6/17/2003 16:05	23 3	8 15 8	8 21 39	5 592	375	75 7	40 9	10.1	2 29	0.042 0.035	16 7	355 7	0	45 6
2004Q0478	203451 LOWER BOX ELDER CREEK * BELOW J H		47 3779 -110 986 NAV-GP			STREAM	MBMG	4/25/2004 14 10	17		8.26 57		344	66 7	39	10.7	3 08	0 035 0 008	3 14	315 1	0	56 6
2005Q0411	203451 LOWER BDX ELDER CREEK * BELOW J H		47 3779 -110 986 NAV-GP			STREAM	MBMG	4/8/2005 11 15	8 3		8 14 65	5 689	377	76 6	40.1	9 88		0 013 0 022	8 48	370 4	0	44 2
2003Q1085	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3588 -110 987 NAV-GP			STREAM	MBMG	5/28/2003 15 50	19	81 6	8 13 87		379	78.2	34 2	11.2	2 93	0 039 0 052	9 17	351	0	59 2
2003Q1166	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP		CADE MT	STREAM	MBMG	6/17/2003 17 15	18.2	7.89	40			84 4	38 1	11.3	2 62	0 046 0 032	128			
2004Q0033	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP		CADE MT	STREAM	MBMG	7/17/2003 12 20			8 44	834	340	68 2	36 8	119	2 37	0 032 0 024	11.8	287 3	0	53 5
2004 Q0097	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP		CADE MT		MBMG	B/19/2003 11 20	15 €	7.85	B 09 62	0 625	344	68 6	36 6	9 91	2 18	0 037 0 023	12.1	330 01	0	40 6
2004Q0155	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3588 -110 887 NAV-GP		CADE MT		MBMG	9/18/2003 18 05	8 7		785 82		342	69 9	37 2	9 68	2 47	0 025 0 046	11.7	328 6	0	40 4
2004Q0237	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP	S NAD27 19N06E32 CAS	CADE MT		MBMG	10/23/2003 11 15	93		789 66	-	387	78 4	38.9	10 3	2 3	0 033 0 042	11.8	357 5	0	512
2004Q0476	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP		CADE MT		MBMG	4/25/2004 14 40	13		B 19 63		430	85 9	47 3	14 6	4 06	0.021 0.019	6 13	389 6	0	66 7
2005Q0350	203450 UPPER BOX ELDER CREEK * LARSON RA	UPPER BOXELDER	47 3586 -110 987 NAV-GP				MBMG	2/4/2005 13 35			B 15	683	404	77 B	38 7	11.5	2 88	0 032 0 023	11.8	401.1	0	50 1
2005Q0413	203450 UPPER BOX ELDER CREEK * LARSON RA		47 3586 -110 987 NAV-GP				MBMG	4/8/2005 11 50			8 13	662	355	68.5	34 8	10	2 21	0 015 0 027	10	335 5	0	498
2005Q0286	214386 BELT CREEK AT ARMINGTON BRIDGE IN	BELT CRK @ARMING	47 3654 -110 907 NAV-GP	S NAD83 19N06E38DBBB CAS			MBMG	10/28/2004 10 00	3 68		B 12 48		292	75 B	179	4.5	1 39	0 012 0 004	8 96	219 1	0	74.6
				J 255 .5.7502000000 0A0																		
2004Q0166	196148 REDDISH GARY	330MDSN	47 3232 -110 931 NAV-GP	S NAD27 18N06E14BDBA CAS	CADE MT	WELL	800 MBMG	9/23/2003 9 00	10 09	7 32	7 88 53	0 542	299	65 9	23 5	5 32	1 79	0 043 0 004	8 46	277 6	0	53 1

	Gwic Id	Site Name	Water Source	ha/l) ł	(mg/l)	Fe (mg/l)	Mn (mg/l)	SiO2 (mg/l) H	CO3 (mg/l)	CO3 (mg/l)	SO4 (mg/	٦)
2004Q0330		DANKS BRENDA	330MDSN	24	0.916		<0.001	7.1	187.9	0	19	8
2004Q0329		DAWSON JIM AND DELORES	330MDSN	8.49	1.13	0 024	0.004	78	203.1	0	20	15
1982Q0356		TOWN OF BELT WELL 2	330MDSN	2.4	0.7	0.015	0 001	9	190.8	0	13	15
2001Q0358		TOWN OF BELT WELL 2	330MDSN	2.5	1.1	0.006	<.001	7.85	197.2	0	13	12
2003Q1129	2315	TOWN OF BELT WELL 2	330MDSN	3.78	1.35	0.014	<0 001	7.92	208 3	0	15	60
2005Q0195		BELT WELL 2A * MADISON WELL * LARSE	330MDSN	118	3.13	0 06	0 177	16	317.5	0	16	£i
2004Q0328		SPRAGG ED	330MDSN	5.96	5.26	0.013	0 005	7	296.7	0	99	.3
					_							
2004Q0160	186483	SPILLER LEROY AND FAYE	110ALVM	7.64	2.75	0.018	<0.001	9.38	282 1	0	89	.2
2003Q1131	32015	JIM LARSON RANCH	110ALVM	12.6	2.45	0 023	< 0.001	9.71	349.5	0		
2004Q0239	32015	JIM LARSON RANCH	110ALVM	11.9	2.47	0.012	<0.001	11	366 9	0		59
2004Q0163	31952	GOO EDWARD	112TILL	36.4	3.67	0 017	< 0.001	15.3	380 2	0	59	7.1
2005Q0289	214917	DEQ RECLAIMED SITE MONITOR WELL 1	111MTLG	26.6	9.53	3 21	5 98	4.22	0	0	573	36
				1								
2005Q0043	210533	MARRY EVANS	217SBRS	31	1.77		< 0.001	9 1	454 5			
2004Q0168	30562	JOHNSON GERALD	217SBRS	14.1	5.01		<0.001	10.2	316.8			3.9
2004Q0169	31957	HORST NATHAN	217SBRS	46.1	5.72	0.12			588.8			21
2005Q0348	217048	BELT WELL 1C	217SBRS	11.1	4.03	0.178			568.1			1.1
2005Q0425	217048	BELT WELL 1C	217SBRS	11.5	3.95	0.199			553 1		_	1.5
2005Q0346		BELT WELL 2C	217SBRS	6.58	1.67				357.2			0.1
2005Q0423	217050	BELT WELL 2C	217SBRS	8.62	2.09	0.009			348			5.9
2005Q0344	217053	BELT WELL 3C	217SBRS	16	4.94				411.4			3.6
2005Q0421	217053	BELT WELL 3C	217SBRS	16.9	4.86	0.283			416			8.9
2004Q0161	207672	IRVINE	217SBRS	7.42	1.78	0.03			346.2			4.3
2004Q0165	186486	DAWSON RANCH	217SBRS	260	6.45	0 027	0.14		512 4		-	84
2004Q0162	164111	HOYER, KEITH AND HEATHER	217SBRS	9.16	2.56	0.102	0.213		274.5		-	97
2005Q0342	217056	BELT WELL 4C	217SBRS	20.1	8.1	0.324	0.05	6.02	505.5	5 (0 3:	5.9
				- 1							_	
2004Q0167		ERIC JOHNSON	217CBNK	5.45	2.35	0.017			272.4			1.6
2004Q0093	84937	HARRIS JOHN JR.	217CBNK	11.9	4.06	1.3			350.4		-	107
2004Q0231		HARRIS JOHN JR.	217CBNK	11.9	4.08	1.10			411.5	•	-	101
2004Q0468	207662	BURGE EXPLORATION ACM WELL	217CBNK	3.86	3.19	0 2			109.6		-	5.7
2004Q0513	207662	BURGE EXPLORATION ACM WELL	217CBNK	7.84	2.89	0.03	4 0.01		303.	_		3.8
2005Q0340	207662	BURGE EXPLORATION ACM WELL	217CBNK	8.71	2.69	0.1	3 0.02	1 6.14	32	7	0 7	96
										-		115
2005Q0290	215048	BELT WELL 4B COAL	221MRSN	22.2	5.88	0 08	7 0.37	6 7.48	416	5	0 1	115
									20.2	_	0 1	121
2004Q0164	145604	ASSELS STEVEN D. AND LINDA L.	221SWFT	7.98		2 0.01	5 000	8 829	223	S	U	121

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	Gwic Id	Site Name	Water Source	ng/l)	K (mg/l)			SiO2 (mg/l) H			
2004 Q0330	150504	DANKS BRENDA	330MDSN	2 4	0.916	0 013	<0.001	7,1	187.9	0	198
2004Q0329	31978	DAWSON JIM AND DELORES	330MDSN	3 49	1.13	0 024	0.004	78	203.1	0	205
1982Q0356	2315	TOWN OF BELT WELL 2	330MDSN	2.4	0.7	0.015	0.001	9	190.8	0	135
2001Q0358	2315	TOWN OF BELT WELL 2	330MDSN	2.5	1.1	0 006		7 85	197.2	0	132
2003Q1129	2315	TOWN OF BELT WELL 2	330MDSN	3.78	1.35	0.014	<0.001	7.92	208 3	0	150
2005Q0195	215047	BELT WELL 2A * MADISON WELL * LARSE	330MDSN	118	3.13	0.06	0 177		317.5	0	163
2004Q0328	177163	SPRAGG ED	330MDSN	5.96	5.26	0.013	0 005	7	29 6.7	0	99.3
2004Q0160	186483	SPILLER LEROY AND FAYE	110ALVM	7.64	2.75	0.018	<0.001	9.38	282.1	0	89.2
2003Q1131	32015	JIM LARSON RANCH	110ALVM	12.6	2.45	0.023	< 0.001	9.71	349.5	0	64.6
2004Q0239	32015	JIM LARSON RANCH	110ALVM	11.9	2.47	0.012	<0.001	11	366.9	0	59
2004Q0163	31952	GOO EDWARD	112TILL	36.4	3.67	0 017	<0.001	15.3	380 2	0	59.1
2005Q0289	214917	DEQ RECLAIMED SITE MONITOR WELL 1	111MTLG	26.6	9.53	3.21	5.98	4.22	0	0	5 73 6
2005Q0043	210533	MARRY EVANS	217SBRS	31	1.77	0.041	< 0.001	9.1	454 5		46.8
2004Q0168	30562	JOHNSON GERALD	217SBRS	14.1	5.01	0.012	<0.001	10.2	316.8		26.9
2004Q0169	31957	HORST NATHAN	217\$BRS	46.1	5.72	0.12	0.05	6 37	588.8		121
2005Q0348	217048	BELT WELL 1C	217SBRS	11.1	4.03	0.178	0.097	7 6.82	568.1	0	51.1
2005Q0425	217048	BELT WELL 1C	217SBRS	11.5	3.95	0.199	0.085	6.77	553.1	0	51.5
2005Q0346	217050	BELT WELL 2C	217SBRS	6.58	1.67	0.008	0.015	7.25	357.2	. 0	20.1
2005Q0423	217050	BELT WELL 2C	217SBRS	8.62		0.009	0.019	7.77	348		25.9
2005Q0344	217053	BELT WELL 3C	217SBRS	16	4.94	0.217	0.104	4 6.33	411.4	. 0	23.6
2005Q0421	217053	BELT WELL 3C	217SBRS	16.9	4.86	0.283	0.09	7 6.24	416	0	28.9
2004Q0161	207672	IRVINE	217SBRS	7.42	1.78	0.03	0.00	2 6.9	346.2	9 0	24.3
2004Q0165	186486	DAWSON RANCH	217SBRS	260		0.027	7 0.14	4 7.85	512.4	0	684
2004Q0162	164111	HOYER, KEITH AND HEATHER	217SBRS	9.16		0.102	2 0.21	3 10	274.	5 0	97
2005Q0342	217056	BELT WELL 4C	217SBRS	20.1		1 0.324	4 0.05	1 6.02	505.	5 0	35.9
2004 Q0167	199851	ERIC JOHNSON	217CBNK	5.45	2.3	5 0.017	7 0.00	4 705	272	۰ 0	31.6
2004 Q0093		HARRIS JOHN JR.	217CBNK	11.5				9 6.35	350	4 0	107
2004Q0231		HARRIS JOHN JR.	217CBNK	11.9		-		1 6.24	411.	5 0	101
2004Q0468		BURGE EXPLORATION ACM WELL	217CBNK	3.86			-		109.	5 0	15.7
2004Q0513		BURGE EXPLORATION ACM WELL	217CBNK	7.84					303.	8 0	73.8
2005Q0340		BURGE EXPLORATION ACM WELL	217CBNK	8.7					32	7 0	79 6
2005Q0290	215048	BELT WELL 4B COAL	221MRSN	22.2	5.8	8 0.08	7 0.37	6 7.48	416.	5 0	115
2004Q0164	145604	ASSELS STEVEN D. AND LINDA L.	221SWFT	7.98	3	2 0.01	5 0.00	8 8.29	223.	5 0	121

	Gwic ld Site Name	Water Source	Latitude Longitude Geometho	d Datum Location (TRS)	County State Site	Type Depth (ft) Agency	Sample Date	Water Temp F	Field pH I	Lab pH Fie	eld SC L	ab SC CDS	(mg/l) Ca	a (mg/l) Mo	(mg/l) N	a (mo/l) K (na/l) F	e (ma/l) N	In (ma/l) SID	2 (ma/l) HCE	03 (ma/l) CO3	I (ma/l) SO/	4 (mod))
2004 Q0330	150504 DANKS BRENDA	330MDSN	47 4317 -110 923 NAV-GPS	NAD27 19N06E11ABAC	CASCADE MT WE	1 300 MBMG	11/25/2003 14 15	11 27	7 17	7 46	657	655	425	93.4	28 6	2.4	0.916	0.013 <		7.1	1879	0	198
2004Q0329	31978 DAWSON JIM AND DELORES	330MOSN	47.3913 -110 969 NAV-GPS	NAD27 19N06E21ACDB	CASCADE MT WE	L 670 MBMG	11/25/2003 15 35	9 71		7 54		676	445	96.5	29 3	3 49	1.13	0 024	0.004	7.8	203 1	0	205
1982Q0356	2315 TOWN OF BELT WELL 2	330MQ\$N	47 3838 -110 923 NAV-GP\$	NAD27 19N06E26ACAD	CASCADE MT WE	L 430 MBMG	1/6/1982 19 11	9.8	7 49	7 58	529	535 1	345	78.3	23	2.4	0.7	0.015		9	190.8	n	135
2001Q0358	2315 TOWN OF BELT WELL 2	330MOSN	47 3838 -110 923 NAV-GPS	NAD27 19N06E26ACAD	CASCADE MT WE	L 430 MBMG	8/4/2000 11 18	10 2	7 77	8 05	574	56 5	346	80 4	23.4	2.5	1.1	0 006 <		7 85	197.2	0	132
2003Q1129	2315 TOWN OF BELT WELL 2	330MDSN	47 3838 -110 923 NAV-GPS	NAD27 19N06E26ACAD	CASCADE MT WE	L 430 MBMG	6/5/2003 15 15	12.2		7 78	600	583	377	86 6	24 7	3 78		0.014 <		7 92	208 3	0	150
2005Q0195	215047 BELT WELL 2A * MADISON WELL * LARSE	330MDSN	47 3786 -110 946 NAV-GPS	NAD27 19N06E27	CASCADE MT WE	L 734 MBMG	9/22/2004 12:50	12 8		7 73	950	823	509	97.5	50.3	11.8	3 13		0 177	16	317.5	0	163
2004Q0328	177163 SPRAGG ED	330MQSN	47.3592 -110 903 NAV-GPS	NAD27 19N06F36DCDD	CASCADE MT WE		11/26/2003 14 30	9.08		7.46	608	599	373	79 9	26	5 96	5.26	0.013		7	296 7	0	99.3
						155 11151115	11120-2000 00	0.00	, 50	, 40	000	555	310		20	0 30	3 20	0013	0 000	,	230 /	u	33 3
2004Q0160	186483 SPILLER LERDY AND FAYE	110ALVM	47 3785 -110 927 NAV-GPS	NAD27 19N06E26DBCB	CASCADE MT WE	L 24 MBMG	9/22/2003 16 45	11 19	7 19	7.66	619	604	360	79.1	27.5	7 64	2.75	0.018 <	<0.001	9 38	282 1	0	89 2
2003Q1131	32015 JIM LARSON RANCH	110ALVM	47 3534 -110 99 NAV-GPS	NAD27 19N06E32DCCB	CASCADE MT WE	L 32 MBMG	8/5/2003 13 40	10 2	7 27	7.67	845	622	377	74.3	35 4	12 6	2 45	0 023 4		9.71	349.5	Ω	64.6
2004Q0239	32015 JIM LARSON RANCH	110ALVM	47 3534 -110 99 NAV-GPS	NAD27 19N06E32DCCB	CASCADE MT WE		10/23/2003 12 20	10.5		7 68	630	655	380	749	34 6	11.9	2 47	0 012		11	366 9	n	59
100440200				10.021 10.1002020		52 11101110					000	000	000	143	3 7 0		2 71	0 012	.0 001		300 3	0	93
2004Q0163	31952 GOO EDWARD	112TILL	47 4357 -110 953 NAV-GPS	NAD27 19N06E03CDBA	CASCADE MT WE	L 12 MBMG	9/25/2003 14 15		6 62	7 97	752	758	413	25 7	65.3	36 4	3 67	0 017 4	<0.001	15.3	380 2	0	59 1
200.00															000		• 01	00,,			000 =	*	00 .
2005Q0289	214917 DEQ RECLAIMED SITE MONITOR WELL 1	111MTLG	47.3815 -110 928 NAV-GPS	NAD83 19N08E26BDDD	CASCADE MT WE	L 13.3 MBMG	10/29/2004 15 15	10.58	4 48	4 45	5462	5230	7286	473	643	26 6	9 53	3 21	5 98	4 22	0	Q	5736
																					_	-	
2005Q0043	210533 MARRY EVANS	217 S BRS	47 3126 -110 995 NAV-GPS	NAD27 18N06E17CAAD	CASCADE MT WE	L 90 MBMG	7/29/2004 15 30	8 61	7 26	8	886	896	473	71.3	63	31	1.77	0.041	<0.001	9.1	454.5	Ω	48.6
2004 Q0168	30562 JOHNSON GERALD	217SBRS	47 3052 -110 977 NAV-GPS	NAD27 18N06E21BABB	CASCADE MT WE	L 35 MBMG	9/23/2003 11 00	9 26	6.89	7 48	682	666	357	77.6	28.9	14.1	5.01	0.012	<0.001	10.2	316.8	n	26 9
2004Q0169	31957 HDRST NATHAN	217SBRS	47 4359 -110 963 NAV-GPS	NAD27 19N06E04DACD	CASCADE MT WE	140 MBMG	9/23/2003 16 35		6.92	7 29	1077	1056	642	69.8	93 7	46.1	5 72		0.05	6 37	588.8	n	121
2005Q0348	217048 BELT WELL 1C	217SBRS	47 3839 -110 953 NAV-GPS	NAD83 19N06E27BACC	CASCADE MT WE	L 90 MBMG	2/3/2005 15 40			7 91		913	517	86 4	75.3	11 1	4 03		0.097	6 82	566 1	0	51.1
2005Q0425	217048 BELT WELL 1C	217SBRS	47.3839 -110.953 NAV-GPS				4/8/2005 14 30			7.31		904	510	65	75 7	11.5	3 95			6 77	553 1	0	51.5
2005Q0346	217050 BELT WELL 2C	217SBRS	47,3789 -110,947 NAV-GPS				2/3/2005 17.30			7 67		615	304	37.5	46 2	8.58	1 67	0 008		7 25	357 2	0	20 1
2005Q0423	217050 BELT WELL 2C	217SBR\$	47 3789 -110 947 NAV-GPS				4/8/2005 18 40			7 43		854	329	43.5	55 6	8 62	2 09			7 77	348	0	25 9
2005Q0344	217053 BELT WELL 3C	217SBRS	47 3726 -110 972 NAV-GPS				2/4/2005 10 40			7 56		628	353	50 6	44 7	16	4 94		0.104	6.33	411.4	0	23 6
2005Q0421	217053 BELT WELL 3C	217S8RS	47 3726 -110 972 NAV-GPS				4/8/2005 16 50			7.51		679	367	53.5	47.4	16.9	4 86			6 24	416	0	28 9
2004Q0161	207672 IRVINE	217SBRS	47 3559 -110 96 NAV-GPS				9/24/2003			7 74		576	318	50.3	44.9	7 42	178			69	346.2	0	24 3
2004Q0165	186486 DAWSON RANCH	217SBRS	47 3715 -110 865 NAV-GPS				9/23/2003 13.30		7	7 58	2086		1418	119	69 4	260	6.45		0.14	7.85	512 4	0	684
2004Q0162	164111 HDYER, KEITH AND HEATHER	217SBRS	47 4516 -110 918 NAV-GPS				9/23/2003 15:35			7 79	597		359	74.9				0 102		10	274 5	0	97
2004Q0162 2005Q0342	217056 BELT WELL 4C	217SBRS					2/3/2005 13 50			_		602			26 4	9 16				6 02	505 5	0	35 9
2005020342	217000 GELT WELL 40	21/30K3	47 3651 -110 956 NAV-GPS	NAD83	CASCADE MT WE	L MBMG	2/3/2005 13 30	9.0	6 83	7 37	735	761	438	65 1	51 2	20 1	6 1	0.324	0 051	0.02	303 3	U	30 9
2004Q0167	199851 ERIC JOHNSON	217CBNK	47 3099 -110 959 NAV-GPS	*******************************	CACCADE MT. INC	L 160 MBMG	9/23/2003 10 25	10 22	6 64	7.26	482	484	265	51.2	28 3	5.45	2 35	0.017	0.004	7 05	272.4	Ω	316
2004Q0107 2004Q0093	84937 HARRIS JOHN JR	217CBNK			CASCADE MT WE		8/19/2003 13 20						444	94.5	41.3	11.9	4 06	4 4		6 35	350 4	0	107
	84937 HARRIS JOHN JR	217CBNK	47 3699 -110 99 NAV-GPS				10/23/2003 13.20				740							_		6 24	411.5	n	101
2004Q0231			47 3699 -110 99 NAV-GPS		CASCADE MT WE			-		7 54	730		467	97	38 9	119	4 08	1 16			109.6	0	15.7
2004Q0468	207662 BURGE EXPLORATION ACM WELL	217CBNK	47 3787 -110 979 NAV-GPS				4/25/2004 13:00		7.21	7 28	220		133	24	10 7	3 86	3 19			6 57		0	
2004Q0513	207662 BURGE EXPLORATION ACM WELL	217C8NK	47 3787 -110 979 NAV-GPS				5/7/2004 11 00			7 58		577	354	75 2	34 1	7 84	2 89			63	303 8		73 8
2005Q0340	207662 BURGE EXPLORATION ACM WELL	217CBNK	47 3787 -110 979 NAV-GPS	NAD27 19N06E29DAAA	CASCADE MT WE	L 186 MBMG	2/4/2005 12 40	1		7 32		612	371	76 5	319	8 71	2 69	0.13	0 021	6 14	327	0	79 6
2005Q0290	215048 BELT WELL 48 CDAL	221MRSN	47.2695 440.05 TOO DAW		CARCADE NAT. WE	L MBMG	10/20/2004 10 00	8 83	6 59	7 37	877	024	507	100	47.7	22 2	E 90	0 087	0.376	7 48	416.5	Ω	115
200500290	213040 GELT WELL 46 CUAL	22 INKSN	47 3625 -110 95 TRS-TWN	NAU27 19N06E34	CASCADE MT WE	LL MBMG	10/29/2004 10 00	583	6 59	/ 3/	8//	921	507	100	4/ /	42 2	5 88	0 087	0.3/0	/ 40	= 10 3	U	113
2004Q0164	145604 ASSELS STEVEN D AND LINDA L	221SWFT	47 3994 -110 93 NAV-GPS	NAD27 19N06E23B0BA	CASCADE MT WE	66 MBMG	9/23/2003 15 00	11 69	7 29	7.67	637	623	367	86	24 3	7 98	2	0.015	0 008	8 29	223 5	0	121
200-00 10-	140004 MODELLO STEVEN D MAD ENAUNE	22 13881	-1 0554 -110 93 NAV-GPS	NAUZ7 (SNUGEZSBUBA	CASCADE NII WE	LL 00 MBMG	512312003 1300	1109	/ 29	1.07	037	0.63	20)	00	24 3	, 50	2	0 0 10	0 000	~ 40			

	Gwic Id	CI (mg/l)	NO3 (mg/l)	F (mg/l)	OPO4 (mg/l)	Ag (ug/l)	Al (ug/l)		As (ı	1g/1
2005Q0283	214915		<2.50 P	<1.25	<2.50	<5	4362	95	<5	
2005Q0287	214914		<2 50 P	2.91	<2.50	<10	2366			-
2003Q0848	200616		<1.0	<1.0	<10	<5	990			- 1
2003Q0866	200616		<0.5		<0.5	<10	1020			
2003Q1018	200616 200616		<1.0 <0.50	<1.0	<1.0 <0.50	<5 <5	907 908			
2003Q1079 2003Q1163	200616		<0.25	0.549		<5	1062			
2003Q1103 2004Q0029	200616		<1.25		<1.25	<5	1077			
2004Q0103	200616		<0.5	3.71		<5	1085	-		
2004Q0147	200616		<0.5	2.15		<5	1160			
2004Q0241	200616	<50	<0.5	1.78	<0.5	<5	1059	49	<5	-
2004Q0470	200616	<100	<1.0	4 23	<10	<10	1262	52	<5	
2004Q0574	200616	6.7	<2.5 P	1.92	<0.50	<5	1015	77 -	<5	
2005Q0075	200616	<5 0	<0.25	<0.25	<0.25	<5	989			
2005Q0288	200616	<5.0	<1 25 P	<0.50	< 0 50	<5	1028			
2005Q0358	200616		<50	<5.0	<5 0	<5	1050			
2005Q0419	200616		<1.0	<1.0	<1.0	<5	952			25
2003Q0846	200615 200615		<5.0	<5.0	<5.0	<10	5050			65.
2003Q0865 2003Q1020	200615		<5.0 <12.5	<5.0 <12.5	<5.0 <12.5	<10 <10	4700 4020			51. 29.
2003Q1020 2003Q1081	200615	163			<1.0	<10	3058			24
2003Q1001	200615		<5.0	<5.0	<5.0	<5	3683			27.
2004Q0031	200615		<2.50		<2.50	<10	4226			28.
2004Q0095	200615		<2.5 P		<2.5	<10	4673			31.
2004Q0149	200615		<2.5	6.79	<2.5	<10	4732			27.
2004Q0235	200615	<25.0	<2.5		<2.5	<10	5956	25		45.
2004Q0472	200615	<63.0	<6.3	<6.3	<6.3	<10	3040	101	<10	
2004Q0572	200615		<2.5	<2.5	<2.5	<10	6006		<10	
2005Q0077	200615		<1.25		<1.25	<10	5069			35.
2005Q0356	200615		<12.5		<12.5	<10	5664			46.
2005Q0417	200615	<25 0	<2.5	<2.5	<2.5	<10	5609	47		48.
	040500	7.05					-			
2005Q0081	213598	7.25	25.6 <0.05		<0.05	<1	<30	1.7	<1 <1	- {
2005Q0352 2004Q0025	213598 204710	79.2		<0.25	<0.05 <0.25	<1 <5	<150		<5	
2004Q0025 2004Q0090	204710	74.8	1.51	~ 0.23	C 0.25	~ 3		22		-
2004Q0050 2004Q0153	204710	83.8	1.95	4.63	<0.5	<10	<300		<10	
2003Q0850	200617	2.47	4.09		<0.05	<1		8.3		
2003Q0863	200617	2.6	3.78		<0.05	<1		36		- [
2003Q1024	200617	2.53	3.7		<0.05	<1	86	6.8	<1	
2003Q1083	200617	3.97	2.41	0.828	< 0.05	<1	1	13	<1	
2003Q1165	200617	48	1.882	0.612	<0 05	<1	1	37	<1	
2004Q0027	200617	14.8	1.22	0.517	<0.25	<5	<30		<5	- 1
2004Q0099	200617	26 1	1.04		<0.5	<1	<30		<1	}
2004Q0151	200617	7.13	1.16		<0.10	<1		5.8		
2004Q0474	200617	3.28	2.94		<0.10	<1		101		
2004Q0570 2005Q0079	200617 200617	4.61 4.36	14.1 15.6		<0.05	<1 <1		1.1 1.6		
2005Q0079 2005Q0354	200617	3.08	3.64		<0.05 <0.05	<1		331		
2005Q0415	200617	2.68	3.74		<0.05	<1		27		
2004Q0101	205653	3.52	3.72		<0.05	<1	<30		<1	- {
2004Q0157	207767	2.28	2.92		<0.05	<1	<30			1.9
2004Q0233	205653	1.8	4.4		<0.05	<1	<30		<1	j
2004Q0159	204516	0.85	<0.5 P	0.392	<0.05	<1	<30		<1	
2004Q0110	205836		0.092		<0.05	<1		0.7		
2004Q0114	205839				<0.05	<1		1.2		
2004Q0112	205838		<0.05		<0.05	<1		6.5		
2004Q0091	205508		0.112 P		<0.05	<1	<30	٠.	<1 -1	- 1
2005Q0285	214916		<0.25 P		<0.05	<1		6.1		
2005Q0284 2005Q0282	214911 214913		0.532 <0.25 P		<0.05 <0.05	<1 <1		568 6.5		
2003Q1087	203451	6.07			<0.05	<1	,,	40	- 1	1.8
2003Q1067 2003Q1162	203451				<0.05	<1	3	9.1		2.0
2004Q0478	203451				<0.10	<1	<30		<1	
2005Q0411	203451		6.95		<0.05	<1	<30		<1	
2003Q1085	203450				<0.05	<1	<30			1.0
2003Q1166	203450					<1		32		1.0
2004Q0033	203450				<0.05	<1	<30		<1	- [
2004Q0097	203450				<0.05	<1	<30		<1	
2004Q0155	203450				<0.05	<1	<30	_	<1	
2004Q0237	203450				<0.05	<1		5.4		
2004Q0476	203450				<0.10	<1	<30		<1	
2005Q0350	203450				<0.05	<1	<30	2 4	<1 -1	
2005Q0413 2005Q0286	203450 214386		5.81 <0.25 P		3 <0.05 <0.05	<1 <1	<10	2.4	<1	
2000000	£ 14300	0.330	-U.ZUF	0.001	~U.U3	~ '	- 10		- 1	
2004Q0166	196148	2.28	1.25	0.277	<0.05	<1	<30		<1	

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	Gwic id	CI (ma/l)	NO3 (mg/l)	F (mg/l)	QPO4 (mg/l)	Ag (ug/l)	Al (ug/	1)	As (ı	ua/il
2005Q0283	214915		<2.50 P	<1.25	<2.50	<5		6295		
2005Q0287	214914	<25.0	<2 50 P	2.91	<2.50	<10	23	6600	<10	
2003Q0848	200616	<10	<1.0	<1.0	<1.0	<5	9	9000	<5	
2003Q0866	200616	5.8	<0.5	1.83	<0.5	<10	10	2000	<10	1
2003Q1018	200616	<10.0	<1.0	<1.0	<1.0	<5	9	0700	<5	- {
2003Q1079	200616		<0.50	1.87	< 0.50	<5	-	0850	-	
2003Q1163	200616	4.65	<0.25	0.549	<0.25	<5	10	6252	<2	
2004Q0029	200616	<12.5	<1.25	2.18	<1.25	<5	10	7767	<5	- 1
2004Q0103	200616	8.6	<0.5	3.71	<0.5	<5	10	8575	<5	- 1
2004Q0147	200616	<5.0	<0.5	2.15	<0.5	<5	11	6063	<5	- 1
2004Q0241	200616	<50	<0.5	1.78	<0.5	<5	10	5949	<5	
2004Q0470	200616	<100	<1.0	4.23	<10	<10	12	6252	<5	- 1
2004Q0574	200616	6.7	<2.5 P	1.92	<0.50	<5		1577		
2005Q0075	200616	<5.0	<0.25	<0.25	<0 25	<5	9	8934	<5	
2005Q0288	200616	<5.0	<1 25 P	<0.50	< 0 50	<5	10	2846	<5	
2005Q0358	200616	<50.0	<5.0	<50	<50	<5	10	5027	<5	- }
2005Q0419	200616	<10.0	<1.0	<1.0	<1.0	<5	9	5278	<5	
2003Q0846	200615	<50	<5.0	<5.0	< 5.0	<10	50	5000		65.
2003Q0865	200615	<50 0	<5.0	<5.0	<5.0	<10	47	0000		51.
2003Q1020	200615	<1250	<12.5	<12.5	<12.5	<10	40	2000		29.
2003Q1081	200615	163	<1.0	5.84	<1.0	<10	30	5844		24.
2003Q1164	200615	<50.0	<5.0	<5.0	<5.0	<5	36	8398		27
2004Q0031	200615	<25.0	<2.50	3.46	<2.50	<10	42	26 85		28.
2004Q0095	200615	29.6	<2.5 P	9.91	<2.5	<10	46	7327		31.
2004Q0149	200615	<25.0	<2.5	6.79	<2.5	<10	47	3245		27.
2004Q0235	200615	<25.0	<2.5	7.94	<2.5	<10	59	5625		45.
2004Q0472	200615	<63.0	<6.3	<6.3	<63	<10	30	4001	<10	
2004Q0572	200615	<25.0	<2.5	<2.5	<2.5	<10	60	0602	<10	
2005Q0077	200615	17.3	<1.25		<1.25	<10		6913		35.
2005Q0356	200615	<12.5	<12.5	13.3	<12.5	<10	56	6482		46.
2005Q0417	200615	<25 0	<2.5	<2.5	<2.5	<10	56	0947		48.
2005Q0081	213598	7.25	25.6	1.25	<0.05	<1		51.7	<1	- 1
2005Q0352	213598	2.94	<0.05		<0.05	<1	<30		<1	- 1
2004Q0025	204710	79.2		<0.25	<0.25	<5	<150		<5	
2004Q0090	204710	74.8				-		322	<50	ŀ
2004Q0153	204710	83.8	1.95	4 63	<0.5	<10	<300		<10	
2003Q0850	200617	2.47	4.09		<0.05	<1	-	68.3		
2003Q0863	200617	2.6	3.78		<0.05	<1		136		- 1
2003Q1024	200617	2.53	3.7		<0.05	<1		86.8		-
2003Q1083	200617	3.97	2.41		<0.05	<1		113		
2003Q1165	200617	4.8	1.882		<0.05	<1		137		
2004Q0027	200617	14.8	1.22		<0.25	<5	<30	,,,,	<5	- 1
2004Q0099	200617	26 1	1.04		<0.5	<1	<30		<1	- 1
2004Q0151	200617	7.13	1,16		<0.10	<1	-00	45.8		- 1
2004Q0474	200617	3.28	2.94		<0.10	<1		101		
2004Q0570	200617	4.61	14.1		<0.05	<1		11.1		
2005Q0079	200617	4.36	15.6		<0.05	<1		51.6		
2005Q0354	200617	3.08	3.64		<0.05	<1		631		1
2005Q0415	200617	2.68	3.74		<0.05	<1		127		- 1
2004Q0101	205653	3.52	3.72		<0.05	<1	<30		<1	
2004Q0157	207767	2.28	2.92		<0.05	<1	<30		.,	1.9
2004Q0233	205653	1.8	4.4		<0.05	<1	<30		<1	1.5
2004Q0159	204516		<0.5 P		<0.05	<1	<30		<1	- 1
200-700	204010	0.00	-0.01	0.032	40.00	-1	-50		- 1	- 1
2004Q0110	205836	0.823	0.092	በ በ77	<0.05	<1		40.7	<1	
2004Q0114	205839		0.032		<0.05	<1		71.2		
2004Q0114 2004Q0112	205838		<0.05		<0.05	<1		36.5		1
2004Q0112 2004Q0091	205508		0.112 P		<0.05	<1	<30	JJ.J	<1	
2005Q0285	214916		<0.25 P		<0.05	<1	-00	16.1		
2005Q0284	214911	1.75	0.532		<0.05	<1		568		
2005Q0284 2005Q0282	214913		<0.25 P		<0.05	<1		16.5		
2003Q1282 2003Q1087	203451	6.07	1.22		<0.05	<1		40		1.8
2003Q1087 2003Q1162	203451		0.991		<0.05 <0.05	<1		39.1		2.0
2003Q1102 2004Q0478	203451		1.81			<1	<30	J.J. I	<1	2.0
2005Q0411	203451				<0.10		<30		<1	
2003Q1085	203451		6.95		<0.05	<1 <1	<30		-1	1.0
2003Q1065 2003Q1166	203450		2.51	0.401	<0.05	<1	~50	32		1.0
			4 50	0 274	√ 0.05		-20	32	<1	1.0
2004Q0033	203450				<0.05	<1	<30			-
2004Q0097	203450		3.41		<0.05	<1	<30		<1	
2004Q0155	203450				<0.05	<1	<30	ar .	<1	
2004Q0237	203450		9.98		<0.05	<1		35.4		
2004Q0476	203450				<0.10	<1	<30		<1	
2005Q0350	203450				<0.05	<1	<30		<1	
2005Q0413	203450				<0.05	<1		32.4		
2005Q0286	214386	0.938	<0.25 P	0.061	<0.05	<1	<10		<1	
202100100	4004:-									
2004Q0166	196148	2.28	1.25	0.277	<0.05	<1	<30		<1	

	Owledd Cl	(ma/l) NO3 (ma/l)	E (mol) OBO4 (=	=0\ 00(11=0\	Al (ug/l) As (ug/l) B (ug/l)	To (well) De (well) De	tuen Celuent I	Co (upd) Cr (upd) Cu (upd) I	Litually Martually N	wall Dharall Sha	man) Se (man) S	than Theat The	D D (1) (1) (1)	7- (0) 7- (0)
2005Q0283			<1.25 <2.50	g/ij Ag (ug/i) <5		sa (ug/i) be (ug/i) br <10 16 < 1:		661 143 986	701 <50	2975 < 10 < 10	<i>ygn)</i> 3e (ugn) 3 <5	2227 <10 <25	127 <25	zn (ug/l) - zr (ug/l) 7823 < 10
2005Q0287	214914 <2		2 91 <2 50	<10	100200		500 <10	517 33.8 48.1	495 <100	1377 <20 <20	< 10	1888 < 10 < 50	24 2 <50	4376 < 20
2003Q0848	200616 <1		<10 <10	<5		10 166 < 1		265 28 3 <50	208 < 10	618 < 10 < 10	<5	1630 184 < 25	2 79 <25	3280 <2
2003Q0866	200616	58<05	1.83 <0.5	<10	102000 <10 111			292 315 157	219 <10	777 <20 <20	<10	1780 < 5 < 50	<50	2800 2 4
2003Q1018	200616 <1	0.0 <1.0	<1.0 <1.0	<5	90700 <5 118	10 163 <1	000 3 96	222 23 3 < 10	192 <50	398 < 10 < 10	<5	1510 <1 <25	<2.5 <25	2790 449
2003Q1079	200616	7 51 < 0 50	1 87 <0 50	<5	90850 < 5 95			245 27 114	190 <50	416 <10 <10	<5	1598 <1 <25	2 94 17 3	2817 2 82
2003Q1163	200616	4 65 <0 25	0 549 < 0 25	<5	106252 <2 102	2 86 20 3 <2	50 26	250 277 109	206 < 10	450 <10 <10	<5	1930 <1 <25	3 01 <25	3121 2 66
2004Q0029	200616 <1	2 5 < 1 25	2 18 <1 25	<5	107767 <5 96 6	2 19 < 1	250 4 13	255 27 7 <10	210 <10	438 < 10 < 10	<5	1700 < 1 < 25	2 73 22 7	3171 3 01
2004Q0103	200616	86 < 05	3 71 < 0 5	<5	108575 < 5 105	2 27 19 7 <50	00 4 68	264 30 <10	212 < 10	485 < 10 < 10	<5	1876 <1 <25	2 74 26 6	3249 3 39
2004Q0147	200616 < 5	0 < 0.5	2 15 < 0 5	<5	118063 < 5 109	3 01 15 2 <5	00 5.33	260 384 < 10	217 < 10	454 < 10 < 10	<5	1806 <1 <20	29 186	3283 3 1
2004Q0241	200616 <5	0 < 0.5	1 78 < 0 5	<5	105949 <5 <150	2 2 14 9 < 5	00 439	265 295 <10	217 <10	430 <10 <10	<5	1873 <1 <25	2 64 16 3	3229 3 32
2004Q0470	200616 <1	0 0 <1 0	4 23 < 1 0	< 10	126252 <5 82 5	2 154 <10	000 5.57	254 24 1 < 10	198 <10	456 <10 <10	< 5	1864 < 1 < 25	2 67 <25	3100 < 10
2004Q0574	200616	67 <25P	1 92 < 0 50	<5	101577 <5 102			247 223 109	210 <10	452 < 10 < 10	<5	1773 < 1 < 20	3 13 <25	3261 <10
2005Q0075	200616 <5	0 <0.25	<0 25 <0 25	<5	98934 <5 116	2 45 12 7 <25		253 27 8 < 10	218 <10	487 < 10 < 10	<5	1743 15 < 20	3 46 <10	3339 4 11
2005Q0288	200616 <5	0 <1.25 P	<0.50 <0.50	<5	102846 <5 <150	4 27 19 5 <50	0 5 26	250 266 < 10	216 <10	760 <10 <10	<5	1969 <1 <25	<3 21.2	3299 <2
2005Q0358	200616 <5		<50 <50	<5		10 15 1 < 50		239 26 3 < 10	212 <10	445 < 10 < 10	<5	1832 2 08 <20	<3 0 <25	3333 3 16
2005Q0419	200616 <1		<10 <10	<5	95278 <5 109	4 59 <10 <1		240 18 2 < 10	207 <10	473 < 10 < 10	<5	1633 <1 <20	<3 16.5	2715 <2
2003Q0846	200615 <5		<50 <50	<10		20 45 <56		368 131 <200	684 <100	974 < 20 < 20	<10	2720 < 10 < 50	16 <50	5120 < 20
2003Q0885	200615 <5		<50 <50	<10	470000 51.8 178			363 130 97.5	659 <50	1080 <20 <20	<10	2880 <25 <50	<50	4090 <10
2003Q1020	200615 < 1		<12.5 <12.5	< 10			2500 <10	287 95 4 93 9	547 <100	819 <20 <20	<10	2520 <10 <50	12 2 <50	3820 <20
2003Q1081		163<10	5 84 <1 0	<10		20 20 7 <10		240 80 3 42 9	415 < 100	356 <20 <20	<10	2119 <10 <50	14 <50	2845 218
2003Q1164	200615 <50		<50 <50	<5		10 25 9 <50		227 80 7 31 3	488 <50	778 <10 <10	<5	2592 <5 <25	15 5 < 25	3448 10.5
2004Q0031	200615 <2		3 48 <2 50	<10		20 34 2 <2		240 92 31	589 <100	344 <20 <20	<10	2974 < 10 < 50	16 3 < 100	4245 28 3
2004@0095		296 <25P	9 91 <2 5	<10		20 42 5 <2		330 123 416	640 <100	1074 <20 <20	<10	3035 <10 <50	15 9 <50	4819 <20
2004Q0149	200615 <2		6 79 <2 5	< 10		20 45 8 <2		339 125 412	667 <100	539 <20 <20	<10	3154 < 100 < 50	16 4 < 50	5082 < 20
2004Q0235	200615 <2		7 94 <2 5	<10		20 40 8 <2		406 152 267	714 <100	556 <20 <20	<10	3410 <10 <50	19 5 <50	5787 < 20
2004Q0472 2004Q0572	200615 <6		<83 <63	<10 <10		20 286 <6		239 47 7 38 8 401 182 85 3	436 <100	399 < 20 < 20 781 < 20 < 20	< 10 < 10	1962 <10 <50 5420 <10 <50	16 < 100	1835 <20
2004Q0572 2005Q0077		173 < 125	<25 <25 257 <125	<10		20 51.4 <2 20 38.1 <1;		401 182 85.3 337 128 38.8	967 <100 692 <100	781 < 20 < 20 589 < 20 < 20	<10	5420 < 10 < 50 2926 < 10 < 50	26 6 <50	8401 <20 5275 <20
2005Q0356	200615 <1		13 3 < 12 5	<10				337 120 36 6	796 <100	588 <20 <20	<10	3600 < 10 < 50	21 1 <50 15 6 <50	5982 < 20
	200615 <1		<25 <25	<10				362 118 246			<20	3058 <10	<50 13.8	4568 < 20
2005Q0417	200615 \2:	30 -23	<25 <25	< 10	900947 46.5 <300	20 44 7 <2	500 10	362 116 246	751 < 100	600 < 20 < 20	~20	3056 < 10	SU 138	4300 <20
2005@0081	213598	7.25 25.6	1 25 <0 05	<1	51 7 <1 84 2	216 < 2 < 5	1 <1	2 224 <2	24 8 < 10	5 81 <2 <2	2 31	581 < 1 < 5	4 77 <5	<2 <2
2005000352	213598	2 94 <0 05	0 573 < 0 05	<1	<30 <1 47.1	197 < 2 < 5		2 <2 <2	28 3 < 10	377 <2 <2	2 54	577 <1 <55	3 64 <5	<2 <2
2004Q0025	204710		<0.25 <0.25	<5	<150 <5 <150			10 <10 <10		10 <10 <10	<5	2224 <5 <25	22 <25	254 < 10
2004Q0020	204710	74.8	1023 1025	~	322 <50 <150	10.3 < 10		10 <50 <25		10 <50 <50	<75	2174 <5 <100	<50	337 12 1
2004Q0153	204710	83.8 1.95	4 63 <0 5	<10		20 <20 <5	-	20 <20 <20		20 <20 <20	<10	2355 <10 <50	23 3 <50	161 < 20
200300850	200617	247 409	0 52 <0 05	<1	68 3 < 1 31 5	173 <2 <5		2 <2 <2	20 9 < 10	373 <2 <2	2 43	442 <1 <5	4 57 <2	3 66 <2
2003Q0863	200617	26 378	0 56 <0 05	<1	136 <1 <30	158 <2 <5		2 <2 <2	18 2 <10	277 <2 <2	2 02	342 <5 <5	<5	5 27 <2
2003Q1024	200617	253 37	0 669 <0 05	<1	86 8 <1 <30	168 <2 <5		2 <2 <2	19 2 < 10	2.28 <2 <2	1 82	436 <1 <5	4 06 <5	2 29 2 1
2003Q1083	200617	3 97 2 41	0 628 <0 05	<1	113 <1 <30	203 <2 <5		2 2 03 <2	24.5 < 10	3 22 <2 <2	1 25	547 <1 <5	4 81 <5	3 89 <2
2003Q1165	200617	4.8 1.882	0 612 <0 05	<1	137 <1 45 3	207 <2 <5		2 <2 <2	26.6 <10	3 35 <2 <2	1 35	586 < 1 < 5	4 86 <5	3 45 <2
2004Q0027	200617	14.8 1.22	0.517 < 0.25	<5	<30 <5 33.4			2 <10 <5	39.8 <10	4 12 < 10 < 10	<5	852 <1 <25	6.21 < 10	33.7 2.42
2004Q0099	200617	26.1 1.04	1 87 < 0 5	<1	<30 <1 595	113 <2 <5		3 15 <2 <2	474 <10	10 42 <2 <2	3.8	1041 <1 <5	8.4 <5	65 7 <2
2004Q0151	200617	7 13 1 16	0 445 < 0 10	<1	45.8 <1 51.7	208 < 2 < 1		2 <2 <2	29 9 < 10	472 <2 <2	2 1	621 <1 <5	5 45 <5	4 83 <2
2004Q0474	200617	3 28 2 94	0.579 < 0.10	<1	101 <1 51	258 < 2 < 1		2 <2 <2	27 9 < 10	3 4 < 2 < 2	1 93	522 206 <5	6 31 <5	<2 <2
2004Q0570	200617	4 61 14 1	0 533 < 0 05	<1	11.1 < 1 52.8	243 <2 <5		4 08 5 35 3 29	28.1 < 10	4 43 <2 <2	1 28	638 <1 <5	5 67 <5	199 <2
2005Q0079	200617	4 36 15 6	0 49 < 0 05	< 1	516 <1 60 5	227 <2 <5		2 305 <2	28 6 < 10	9 64 <2 <2	1 84	572 11 <5	7 06 <5	<2 <2
2005Q0354	200617	3 08 3 64	0 422 <0 05	<1	631 < 1 < 30	185 <2 <5	0 <1	<2 <2 <2	25 9 <10	7.94 <2 <2	2 69	599 <1 <5	4 8 <5	11 7 <2
2005Q0415	200617	2 68 3 74	0 46 < 0 05	<1	127 <1 <30	186 <2 <5		<2 <2 <2	20 1 < 10	3 05 <2 <2	2 33	470 <1 <5	4 64 <5	2 32 <2
2004Q0101	205653	3 52 3 72	0 618 < 0 05	<1	<30 <1 45 1	122 <2		<2 <2 <2	19 1 < 10 <	2 <2 <2	1 89	446 <1 <5	2 4 < 5	<2 <2
2004Q0157	207767	2 28 2 92	0 495 <0 05	<1	<30 1 92 39 7	150 <2 <5		<2 <2 <2	195<10 <	2 <2 <2	1 28	385 <1 <5	<1 <5	<2 <2
2004Q0233	205653	18 44	0 672 < 0 05	<1	<30 <1 40.1	133 <2 <5	0 • <1	<2 <2 <2	18 3 < 10	3 74 < 2 < 2	1 77	443 <1 <5	2 71 <5	4 35 <2
2004Q0159	204516	085 < 05 P	0 392 < 0 0 5	<1	<30 <1 <30	471 < 2 < 5		<2 <2 <2	15.8 < 10 <	2 <2 <2	1 35	425 <1 <5	281 <5	3 83 <2
2004Q0110		0.092		<1	40 7 <1 <30	74 1 <2 <5	0 1 45		8 14 17 4 <		<1	639 <1 <5	3 05 <5	29 <2
2004Q0114	205839	1 46 0 075	0 0, .0 00	<1	712 <1 <30	77 5 <2 <5	0 <1	<2 <2 <2	10 4 < 10 <	2 <2 <2	<1	673 <1 <5	1 07 <5	104 <2
2004Q0112	205838	1 45 <0 05	0 159 <0 05	<1	365 < 1 < 30	66 1 < 2 < 5		<2 <2 <2		2 <2 <2	<1	644 <1 <5	1 13 <5	103 <2
2004Q0091	205508	1 85 0 112 P	0 161 < 0.05	<1	<30 <1 <30	77 7 <2 <5	0 <1	<2 <2 <2	11 < 10	<2 <2 <2	<1	714 <1 <5	1 17 <5	7 75 <2
200500285	214916	2 11 <0 25 P	0 242 <0 05	<1	16 1 < 1 31 4	59 9 <2 <5	0 <1	25 1 < 2 < 2	35 <10	61 5 < 2 < 2	<1	799 < 1 < 5	<1 <5	104 <2
2005Q0284	214911	1 75 0 532	0	<1	568 <1 47 4	713 <2 <5		45 1 < 2 < 2	85 2 < 10	74 5 <2 <2	<1	734 <1 <5	<1 <5	145 < 2
2005Q0282	214913	1 69 <0 25 P	0 195 < 0 05	<1	18.5 <1 <30	636 <2 <5	0 <1	28 2 < 2 < 2	34 9 < 10	77 1 <2 <2	<1	814 <1 <5	<1 <5	212 <2
2003Q1087	203451	6 07 1 22		<1	40 186 <30	244 < 2 < 5		<2 3 24 3 343	167 < 10	2 05 <2 <2	<1	436 <1 <5	2 56 <5	12 <2
2003Q1162	203451	55 0.991		<1	391 207 377	294 <2 <5		<2 <2 <2	17 7 <10	2 01 <2 <2	<1	444 <1 <5	2 74 <5	2 14 <2
2004Q0478	203451	68 181	0 101 10 10	<1	<30 <1 407			<2 <2 <2	25 3 <10	3 39 <2 <2	1 04	555 <1 <5	3 67 <5	7 79 <2
2005Q0411	203451	5 81 6 95		<1	<30 <1 <30	220 <2 <5		<2 <2 <2	17 2 < 10	2 79 <2 <2	<1	430 <1 <5	3 06 <5	<2 <2
2003Q1085	203450	7 91 2 51	0 401 <0 05	<1	<30 1 04 <30	213 <2 <5		<2 2 82 <2	15 < 10	2 08 <2 <2	< 1	394 <1 <5	2 19 <5	<2 <2
2003Q1166 2004Q0033	203450 203450	876 459		<1	32 1 08 <30	235 <2		<2 <2 <2		<2 <2 <2	<1	453 <1 <5	2 29 <5	<2 <2 <2 <2
			0 41 1 0 00	<1	<30 <1 <30	253 <2 <		<2 <2 <2		<2 <2 <2	<1	438 <1 <5	2 62 <5	
2004Q0097	203450	7 09 3 41		<1	<30 <1 39.8	286 <2 <5		<2 <2 <2		<2 <2 <2	1 14	442 <1 <5	2 71 <5	2 58 <2
2004Q0155 2004Q0237	203450 203450	6 96 1 33 7 11 9 96		<1	<30 <1 35.7	336 <2 <		<2 <2 <2	17 9 < 10	2 49 <2 <2	1.4	450 <1 <5	3 01 <5	<2 <2
	203450		0 001 1000	<1	35 4 <1 <30			<2 <2 <2	197 <10	4 67 <2 <2	<1	470 <1 <5	3 84 <5	10 6 <2
2004Q0476 2005Q0350	203450	9.85 3.48 8.2 4.75	0 00 -0 10	<1	<30 <1 42			<2 <2 <2	22 2 < 10	3 65 <2 <2	1 01	533 <1 <5	5 48 <5	<2 <2 <2
2005Q0350 2005Q0413	203450	804 58		<1	<30 <1 <30			<2 <2 <2	18 <10	8 62 <2 <2	1 08	432 1.57 <5 354 <1 <5	3 02 <5 2 53 <5	<2 <2 <2
2005Q0413	214386	0 938 < 0 25 P	0 328 <0 05 0 061 <0 05	<1 <1	32 4 <1 <30 <10 <1 <30			<2 <2 <2 <2 <2 <2	15 1 <10	2 45 <2 <2	<1 <1	354 <1 <5 950 <1 <5	2 53 <5 1 26 <5	17 <2
200000200	£ 14000	5 556 -V 25 P	0.001 <0.02	~1	<10 <1 <30	77 5 <2 <	50 <1	<2 <2 <2	8 4 < 10	2 84 <2 <2	~1	200 -1 -2	140 \3	11 -4
2004Q0166	198148	2 28 1 29	5 0 277 <0 05	<1	<30 <1 <30	694<2 <	50 <1	<2 <2 <2	8 42 <10	2 65 <2 <2	<1	441 <1 <5	1 28 <5	292 <2
		12	02.1.5000	- 1	-1 50	034 °Z <	, I		0 42 4 10	200 -2	- 1		. 20 -0	

	Gwic Id	CL (mail)	NO3 (mg/l)	E (ma/l)	OBO4	(mall)	Aa (uall)	A1 (1)	a#\	A
2004Q0330	150504		<0.5 P			(mg/r)	Ag (ug/i) <1	<30	9/1)	7
2004Q0330 2004Q0329	31978	0.09	<0.5 P	0.462	<0.05		<1	<30		4
1982Q0356	2315	1.6	0.34	0.43			<2.	<30.		
2001Q0358		0.751	<.5 P	0.43			<1	<30.		<
2003Q1129							<1	<30		~
2005Q1125			7.94				<1	~50	12.3	- 1
2004Q0328	177163		<0.5 P				<1	<30	12.5	<
2004(20)20	177100	2.0	-0.51	0.513	~ 0.03		-1	~50		Ì
2004Q0160	186483	4.26	0.664	0.37	<0.05		<1	<30		<
2003Q1131	32015	4.38	1.05	0.379	< 0.05		<1	<30		<
2004Q0239	32015	4.14	1.04	0.36	< 0.05		<1	<30		<
2004Q0163	31952	8.2	10.77 P	1.18	<0.05		<1	<30		<
2005Q0289	214917	<25.0	7.84 P	2.62	<2.50		<10	3	73061	1
2005Q0043	210533	25.5	<0.25 P	0.9	<0.05		<1	<10		<1
2004Q0168	30562		14.35				<1	<30		<1
2004Q0169	31957		<0.5		<0.1		<1	<30		<1
2005Q0348	217048		<0.05	0.233				<30		<1
2005Q0425	217048		<0 05						42.3	
2005Q0346	217050		5.95				<1		34.7	
2005Q0423	217050		11.8				<1	<10		<1
2005Q0344	217053		0.06			0.125		<30		
2005Q0421	217053		<0.05				<1		47 2	- (
2004Q0161	207672	3.53	7.96		<0.05		<1	<30		<
2004Q0185	186486	17.9	_	<1.0			<5	<30		< 5
2004Q0162	164111	3.26	<0.5 P				<1	<30		<1
2005Q0342	217056	2.51	<0.05	1.35	<0.05		<1	<30		
2004Q0167	199851		1 12				<1	<30		<1
2004Q0093	84937		<0.05		< 0.05		<1	<30		<1
2004Q0231	84937		<0.05	1.49	<0.05		<1	<30		<1
2004Q0468	207662						<1		58.4	
2004Q0513	207662	-	<0.5		<0.05		<1	<30		<1
2005Q0340	207662	3.07	0.195	0.721		0.054	<1	<30		<1
2005Q0290	215048	2.83	<0.25	0 609	<0.10		<1		16	
2004Q0164	145604	6	0.79 P	0.133	<0 05		<1	<30		<1

	Gwic Id	CL (ma/l)	NO3 (mg/l)	E (ma/l)	OPOA	(ma/l)	Ag (ug/l)	Δ1 (1)	M)	٨
2004Q0330	150504		<0.5 P			לישוייו	<1	<30		7
2004Q0330 2004Q0329	31978	0.03	<0.5 P	0.462	<0.05		<1	<30		4
1982Q0356	2315		0.34		~0 05		<2.	<30.		1
2001Q0358	2315		<.5P		<.05		<1	<30		4
2003Q1129			<0.5	<0.5			<1	<30		4
2005Q0195	215047		7.94				<1	-50	12.3	1
2004Q0328	177163		<0.5 P	0.579			<1	<30		4
200400020	177 100	2.0	10.01	0.575	~0.0 5		-	~50		
2004Q0160	186483		0.664	0.37	<0.05		<1	<30		<∤
2003Q1131	32015	4.38	1.05	0.379	<0.05		<1	<30		<
2004Q0239	32015	4.14	1.04	0.36	<0.05		<1	<30		< 1
										-
2004Q0163	31952	8.2	10.77 P	1.18	<0.05		<1	<30		< 1
2005Q0289	214917	<25.0	7 84 P	2.62	<2.50		<10	3	73061	4
200000200	21.011	20.0	1.011	4.02	-2.00		- 10	Ŭ		
2005Q0043	210533	25.5	<0.25 P	0.9	<0.05		<1	<10		۲
2004Q0168	30562	23.9	14.35	0.107	<0.05		<1	<30		<∮
2004Q0169	31957	7.79	<0.5	0.966	<0.1		<1	<30		<₫
2005Q0348	217048	2.98	<0.05	0.233		0.098	<1	<30		<₫
2005Q0425	217048	2.74	<0 05	0.359		0.167	<1		42.3	<₫
2005Q0348	217050	1.46	5.95	0.906	<0.05		<1		34 7	<1
2005Q0423	217050	1.37	11.8	0 842	< 0.05		<1	<10		<∮
2005Q0344	217053	2.11	0.06	1.55		0.125	<1	<30		1
2005Q0421	217053	1.92	<0.05	1.34		0.108	<1		47 2	- 1
2004Q0161	207672	3.53	7.96	0.778	< 0.05		<1	<30		<
2004Q0165	186486	17.9	1.2	<1.0	<1.0		<5	<30		<\$
2004Q0162	164111	3.26	<0.5 P	0 221	<0.05		<1	<30		<
2005Q0342	217056	2.51	<0.05	1.35	<0.05		<1	<30		-
2004Q0167	199851		1,12		<0.05		<1	<30		<1
2004Q0093	84937	3.08	<0.05		<0.05		<1	<30		<1
2004Q0231	84937	2.75	<0.05		<0.05		<1	<30		<1
2004Q0468	207662	3.89	2.17	0.255	<0.05		<1		58.4	<1
2004Q0513	207662	2.9	<0.5	0.702	<0.05		<1	<30		<1
2005Q0340	207662	3.07	0.195	0.721		0.054	<1	<30		<1
2005Q0290	215048	2.83	<0.25	0 609	<0.10		<1		16	
				2 - 30					-	
2004Q0164	145604	6	0.79 P	0 133	<0.05		<1	<30		<1

Composition Composition	((up/l) Zp (up/l) Zr (up/l)
2010/0329 31978 098 e/0 FP 0.462 e/0 05 e/1 430 41 <30 41 <30 20 2 1.52 e/2 <2 2 749 e/10 261 e/2 <2 <1 1738 e/1 <5 269 e/0 FP 0.44 e/0 <4 <30 41 <30 41 <30 41 <30 42 <2 <2 2 2 2 <2 2 2 2	
180200356 2315 16	
200100388 2315 0751 <55P 0 41 <05 <1 <30 <1 <30 <1 <30 351 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <3 611 <10 217 <2 <2 <41 1190 <1 <51 <52 >2001010359 2315 <50 <50 <50 <50 <50 <50 <43 <30 <1 <30 351 <2 <50 <41 <30 356 <50 <41 <30 <41 <40 359 <50 <41 <40 <41 <41 <41 <41 <41 <41 <41 <41 <41 <41	2 120 8
2003001132 23154 < 50	<5 <2 <2 <2
2004Q0328 177163 26 < 0.5 P	
2004Q0328 177163 26 40 5P 0 579 40 05 41 430 41 93 1 29 2 2 450 41 42 42 2 2 889 27 8 410 2 16 42 42 41 1593 41 45 0.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6	
2004Q0160 186483 4 26 0 664 0 37 <	
200301131 32015 4 38 1 05 0 379 <0 05 <1 <30 <1 <30 <1 <30 <21 <2 <1 <2 <2 <2 <2 <1 157 <10 <2 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <1 356 <1 <5 <2 <2 <2 <1 356 <1 <5 <2 <2 <1 <3 <30 <1 <5 <4 <3 <4 <4 <5 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	5 4 290
2004Q0239 32015 414 104 036 <05 <1 <30 <1 362 254 <2 <50 <1 <2 <2 388 16 <10 <2 <2 <2 <1 351 <1 <5 272	
2004Q0163 31952 8 2 10 77 P 1.18 <0.05 <1 <30 <1 132 88 2 <2 <50 <1 <2 <2 <5 58 <10 <2 <2 <2 <3 303 544 <1 <5 912 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	2 37 <5 50
200500043 210533 255 0 25P 0 9 d0 5 1	<5 128 <2
200500043	<5 114 <2
2004Q0168 30562 239 14 35 0 107 ¢0 05 <1 <30 <1 <30 <1 <30 <1 <30 <1 <2 < 2 < 2 < 2 < 83 <10	<50 1196 <20
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2004Q0169 31957 779 < 0.5	
2015Q0348 217048 298 <0.05 0.233 0.098 <1 <30 <1 48.6 74.9 <2 <50 <1 <2 2.28 <2 38.5 <10 7.38 <2 <2 <1 640 1.54 <5 6.95 2015Q0425 217048 274 <0.05 0.359 0.167 <1 42.3 <1 45.7 75.4 <2 <50 <1 <2 3.83 <2 35.4 <10 4.13 <2 <2 <1 640 1.54 <5 6.95 2015Q0348 217050 1.46 5.95 0.906 <0.05 <1 34.7 <1 48.4 108 <2 <50 <1 <2 <2 <2 <2 2.89 <10 3.86 <2 <2 <1 4.06 4.08 <2 <2 <1 6.06 <1 <5 3.55 2005Q0348 217050 1.37 11.8 0.842 <0.05 <1 <10 <1 42.2 124 <2 <50 <1 <2 <2 <2 2.85 <1 <2 <2 2.89 <10 3.86 <2 <2 <1 4.06 4.07 <4 <2 <1 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	
2005Q0426 217049 2 74 <0.05 0 359 0 167 <1 42 3 <1 45 7 75 4 <2 <50 <1 <2 383 <2 35 4 <10 413 <2 <2 <1 629 <1 <5 676	
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2005Q0344 217053 211 0 06 155 0 125 <1 <30 541 115 941 <2 <50 <1 507 2 03 <2 65 5 <10 23 3 <2 <2 <1 915 <1 <5 <1 2005Q0421 217053 192 <005 134 0 108 <1 472 53 104 95 6 <2 <50 <1 3.74 <2 <2 61 6 <10 20 5 <2 <2 <1 915 <1 <5 <1 2004Q0161 207672 353 796 0778 <005 <1 <30 <1 347 881 <2 <50 <1 3.74 <2 <2 61 6 <10 20 5 <2 <2 <1 915 <1 <5 <1 2004Q0161 207672 353 796 0778 <005 <1 <30 <1 347 881 <2 <50 <1 <2 <2 2 7 31 2 <10 <2 <2 <2 417 418 <45 <5 <1 <2 <2 2 7 31 2 <10 <2 <2 <2 417 418 <45 <5 <1 <2 <2 2 7 31 2 <10 <10 <2 <2 <2 <1 17 6 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	
2005Q0321 217053 192 < 0.05 134 0.108 < 1 47 2 5 3 104 95 6 < 2 < 50 < 1 3.74 < 2 < 2 61 6 < 10 20.5 < 2 < 2 < 1 90.9 < 1 < 5 < 1 2004Q0161 207672 3 5 3 766 0.776 < 0.05 < 1 < 30 < 1 34 7 88 1 < 2 < 50 < 1 < 2 < 2 < 2 2 7 31 2 < 10 < 2 < 2 < 2 41 7 418 < 1 < 5 264 < 2004Q0185 186488 17.9 1.2 < 10 < 10 < 10 < 5 < 30 < 5 162 15 7 < 2 < 1000 < 1 357 < 10 < 5 1958 < 10 < 7 87 < 10 < 10 < 5 1876 < 1 < 2 < 7 97 < 2004Q0182 1864111 3.26 < 0.5 P 0.221 < 0.05 < 1 < 30 < 1 < 30 < 1 < 30 < 5 186 < 2 < 50 < 1 < 2 < 2 < 2 2 15 2 < 10 334 < 2 < 1 7 787 < 10 < 10 < 5 1876 < 1 < 2 < 7 97 < 10 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 10 < 5 1876 < 1 < 10 < 10 < 10 < 10 < 10 < 10 < 10	<5 <2 <2
2004Q0161 207672 3 53 7 96 0 778 <0 0 5 <1 <30 <1 34 7 88 1 <2 <50 <1 <2 <2 2 7 31 2 <10 <2 <2 <2 417 418 <1 <5 264 2004Q0165 186488 179 12 <10 <10 <10 <5 <30 <5 162 157 <2 <1000 <1 357 <10 <5 1958 <10 787 <10 <10 <5 1876 <1 <25 796 2004Q0162 2004Q0163 184111 3.26 <0 5 P 0 221 <0 0 5 <1 <30 <1 <30 58 6 <2 <50 <1 <2 <2 <2 152 <10 33 4 <2 <2 <1 780 <1 <5 177 2005Q0342 217056 251 <0 0 5 135 <0 0 5 135 <0 0 5 <1 <30 114 175 597 <2 <50 <1 <2 <2 2 152 <10 33 4 <2 <2 <1 780 <1 <5 177 2004Q0167 199851 2 57 112 107 <0 0 5 <1 <30 <1 573 93 <2 100 <1 <2 <2 2 39 219 <10 345 <2 <2 233 371 <1 <5 30 2004Q0093 84937 3 0 8 <0 0 5 141 <0 0 5 <1 <30 <1 14 21 <2 78 <1 <2 <2 2 25 24 <10 432 <2 <1 889 <1 <5 30 2004Q0093 84937 3 0 8 <0 0 5 141 <0 0 5 <1 <30 <1 14 21 <2 78 <1 <2 <2 2 25 24 <10 432 <2 <1 889 <1 <5 115 889	<5 <2 <2
2004Q0165 186488 179 12 <10 <10 <5 <30 <5 162 157 <2 <1000 <1 357 <10 <5 1958 <10 787 <10 <10 <5 1876 <1 <26 796 <1 <20 <796 <10 <10 <10 <5 1876 <1 <26 796 <1 <20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	
2004Q0162 164111 326 <0.5 P 0.221 <0.05 <1 <3.0 <1 <3.0 58.6 <2 <5.0 <1 <2 <2 <2 15.2 <1.0 334 <2 <2 <1 760 <1 <5 177 2005Q0342 217056 2.51 <0.05 13.5 <0.05 <1 <3.0 11.4 175 597 <2 <5.0 <1 <2 21.42 106 <1.0 47 <2 <2 <1 1211 <1 <5 <1 2004Q0167 199851 2.57 112 1.07 <0.05 <1 <3.0 <1 57.3 93 <2 100 <1 <2 22.2 39 21.9 <1.0 3.45 <2 <2 233 371 <1 <5 3.0 2004Q0093 84937 3.08 <0.05 141 <0.05 <1 <3.0 <1 144 21 <2 76 <1 <2 <2 25.4 <1.0 4.32 <2 <1 889 <1 <5 1.15	
2005Q0342 217056 251 < 0.05	
200400093 84937 3.08 < 0.05 1.41 < 0.05 < 1 < 3.0 < 1 114 21 < 2 76 < 1 < 2 < 2 52 4 < 10 4 32 < 2 < 1 889 < 1 < 5 1 1.	<5 <2 <2
200400093 84937 3.08 < 0.05 1.41 < 0.05 < 1 < 3.0 < 1 114 21 < 2 76 < 1 < 2 < 2 52 4 < 10 4 32 < 2 < 1 889 < 1 < 5 1 1.	<5 213<2
20044000241 M4937 275 <0.05 1.49 <0.05 <1 <30 <1 107 22.5 <2 62.c1 <2 2.58 <2 54.3 <10 7.71 <2 <2 <1 914 <1 <5 1.4	
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2004Q0468 207662 389 217 0255 <0.05 <1 584 <1 <30 719 <2 <50 185 442 <2 928 889 <10 7.09 <2 <2 <1 215 <1 <5 0.59%	
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2005Q0340 207662 3 07 0 195 0 721 0 054 <1 <30 <1 39 % 64 3 <2 109 <1 <2 <2 <2 27 1 17 5 15 7 <2 <2 <1 609 <1 <5 0 904	<5 312 <2
2005Q0290 215048 2 83 <0 25	<5 13 <2
2004Q0164 145604 6 0 79 P 0 133 < 0 05 < 1 < 30 < 1 < 30 73 9 < 2 < 50 < 1 < 2 < 2 < 1 46 < 10 3 22 < 2 < 1 761 < 1 < 5 1 75	<5 28 9 <2

Appendix F

Isotope Data

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Appendix F

Isotope Data

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	Isot	ope Data				
mnumber	Sample Name	Date	Lab#	Tritium TU E3H	Oxygen 180	Previously collected data
200616	Anaconda Mine Drain	1/30/03	57350	14.2		X
200616	Anaconda Mine Drain	5/28/03	67115	16	-18.04	X
200616	Anaconda Mine Drain	7/17/03	67123	16	-18.22	X
200616	Anaconda Mine Drain	10/23/03	72794	12.9	-18.46	X
205838	Belt Creek#2 above AMD	7/17/03	67122	13.2	-17.94	X
*	Box Elder Creek, Harris Ranch	1/29/03	57353	18.6		X
150504	Brenda Danks	11/25/03	73725	12.6	-18.72	
31978	Jim Dawson	11/24/03	73724	13.1	-18.67	
177163	Ed Spragg	11/26/03	73726	7.5	-19.64	
199851	Eric Johnson	9/23/03	73716	8.6	-19.79	
200615	French Coulee Drain	1/29/03	57351	15.3		X
200615	French Coulee Drain	5/28/03	67116	19.5	-17.98	X
200615	French Coulee Drain	7/17/03	67124	17.2	-18.04	X
200615	French Coulee Drain	10/23/03	72793	16	-18.28	X
186483	Fye Spiller	9/22/03	73713	13.7	-18.28	
196148	Gary Reddish	9/23/03	73719	11.1	-18.69	
31952	Edward Goo	9/25/03	73723	15.7	-15.34	
200617	Highway Drain	1/30/03	57352	26		Х
200617	Highway Drain	5/28/03	67117	23.6	-16.52	X
204710	HWD-Seep	7/17/03	67125	31.9	-17.36	X
207672	Irvine	9/24/03	73721	2.4	-16.67	
186486	Jeff Dawson	9/23/03	73718	12	-18.13	
30562	Jerry Johnson	9/23/03	73714	14.4	-19.31	
32015	Jim Larson Well	6/5/03	67120	18.1	-16.99	X
32015	Jim Larson Well	10/23/03	72791	16.8	-17.08	X
84937	John Harris	8/19/03	68103	8.9	-18.59	X
84937	John Harris	10/23/03	72789	8.6	-18.6	X
205653	John Harris Spring	8/19/03	68104	14.2	-17.81	X
205653	John Harris Spring	10/23/03	72790	13.6	-17.91	Х
164111	Keath Hoyer	9/23/03	73720	17.1	-18.46	
204516	Larson Well (Windmill)	9/24/03	73722	20.5	-15.82	
145604	Linda Assels	9/23/03	73715	18.3	-17.83	
203451	Lower Box Elder Creek	5/28/03	67118	20.3	-16.74	X
31957	Nathanial Horst	9/23/03	73717	1.3	-16.78	
2316	Town of Belt Well #1 Creek Well	6/5/03	67121	13.1	-18.67	Х
2316	Town of Belt Well #1 Creek Well	11/23/03	72795	12.2	-18.99	X
2315	Town of Belt Well #2 Park Well	11/23/03	72796	13.6	-19.04	X
203450	Upper Box Elder Creek, Larson Ranch	5/28/03	67119	20.2	-17.11	X
203450	Upper Box Elder Creek	7/17/03	67126	19.8		X
203450	Upper Box Elder Creek	10/23/03	72792	23.2	-16.88	X
200400	X = Open File Report No. 504	.0,20,00	, = , 02		. 5.55	

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